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OBSERVATIONS

MADE AT THE

MAGNETICAL AND METEOROLOGICAL OBSERVATORY

AT

BATAVIA.

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PUBLISHED BY ORDER OF THE GOVERNMENT OF NETHERLANDS INDIA,

UNDER THE DIRECTION OF

Dr. J. P. VAN DER STOK.

VOL. X. 1887.

BATAVIA

PRINTED AT THE GOVERNMENT PRINTING OFFICE

1888.

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PREFACE.

The hourly observations and photographic records of meteorological and magnetical elements, as well as the summarizing Tables in the results are printed in this volume according to the plan adopted in the preceding volume.

The scale-value of the selfregistering electrometer has been controlled by means of weekly determinations, for which the same Latimer-Clark battery of 12 cells as mentioned in the preface to volume IX has been employed. During the first months of the year the records showed, notwithstanding this mode of reduction to absolute measure a continuous decrease. On February 28th therefore the glass bell, that shuts off the instrument from the outer air, was removed and the insulating capacity of every single part tested by means of a gold-leaf electroscope. It was found that the glass rods by which the wires leading to the needle and the quadrants are insulated from the metallic cover, had acquired a sensible conductive power; they were therefore removed and superseded by small rods of shellac. When freshly washed and dried the glass rods insulate perfectly, in the long run however their insulating capacity gradually gives way. At the same time the glass dish containing the glycerine, which rests on a mica plate, was supported by three pieces of shellac, with a view of ensuring a perfect insulation. The effect of this amelioration is clearly indicated in Tables 9 and 9a of the results by a sudden increase of the monthly mean potential for March. Since March 1887 the electrometer, tested by charging the needle to a high potential and examining the loss of electricity by means of a gold-leaf electroscope, has given very satisfactory results in this respect. Still however the reduction to absolute measure has been imperfect in consequence of a gradual decrease of potential of the testing Latimer-Clark battery and therefore no conclusion can be drawn from the monthly means given in Tables 9 and 9a as regards the annual variation of the electrical potential of the atmosphere.

This continous deterioration however does not impair the diurnal variation exhibited in these Tables. In future the reduction to absolute measure will be effected by means of freshly constructed Daniell cells.

In Table 3a the relative humidity has been given as calculated according to Prof. Weihrauch's method by dividing the mean tensions given in Table 4 by the maximum vapour-tension corresponding to the mean temperatures given in Table 2.

Table 4a exhibits the Deficiency of Saturation or Additional Capacity, the difference between the two above quantities.

The hourly measurements of the rainfall have been made by means of the old rain gauge which, as was mentioned in vol V, gives an excess of 9 percent.

In this volume and volume IX however not only the results but every individual record have been corrected for this error.

The observation of the temperature of the soil had to be stopped in consequence of breakage of the greater part of the thermometers.

Hourly observations from 8 a. m. till 4 p. m. have been made of the solar radiation thermometer.

Tables 22, 23 and 24 show the diurnal variation of magnetic elements deduced from hourly observations of the second set of Magnetometers.

The variation of the Declination and Horizontal Force agree well with the variations deduced from the Magnetograph-records; the variation of the Vertical Force however shows considerable discrepancies.

No other reason for this phenomenon has been found than imperfect burnishing of the edge of the steel knife; the instrument therefore has been dismounted and sent to be repaired.

BATAVIA, July 1888. VAN DER STOK.

METEOROLOGICAL OBSERVATIONS

BATAVIA

1887.

BAROMETRIC PRESSURE.

BAROMETER AT 0°C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	9.41	8.72	8.37	8.34	8.52	9.03	9.80	10.14	10.19	9.94	9.60	8.95	—
	2	8.43	8.00	7.92	7.93	8.04	8.49	9.06	9.16	9.35	9.39	9.15	8.29	—
	3	8.42	8.18	7.76	7.94	8.42	8.79	9.16	9.77	10.08	10.00	9.64	8.84	—
	4	8.27	7.99	7.80	7.61	7.92	8.53	8.95	9.25	9.63	9.48	9.05	8.74	—
	5	7.92	7.29	7.00	6.95	7.42	7.65	8.06	8.43	8.52	8.50	8.18	7.74	—
	6	7.29	7.11	7.01	6.92	6.97	7 52	8.58	8.92	9.12	9.06	8.79	8.28	—
	7	7.72	7.28	7.01	6.93	7.36	7.97	8.67	9.08	9.27	9 21	8.98	8.48	—
	8	8.62	8.15	7.82	7.74	7.94	8 40	8.92	9.35	9.72	9.59	9.31	8.58	—
	9	10.03	9.73	9.33	9.23	9.63	9.73	9.96	10.35	10.75	10.79	10.77	10 39	—
	10	9.54	9.27	8.88	8.95	9.17	9.63	9.98	10.19	10.35	10.18	9.97	9.61	—
	11	9.54	8.99	8.40	8.72	8.78	9.30	10.14	10.04	9.89	9.49	9·11	8.84	—
	12	8.88	8.21	7.78	8.03	8.38	8.75	9.46	10.03	10.10	10.02	9.98	9.80	—
	13	9.84	9.65	9.28	9.26	9.38	9.57	10.09	10.22	10.20	10.28	10.08	9.27	—
	14	9.07	8.49	8.00	8.31	8.31	8.87	9.03	9.14	9.09	8.83	8.63	7.98	—
	15	7.33	7.15	6.91	6.77	7.03	7.50	7.90	8.11	8.20	7.96	7.68	7.24	—
	16	7.83	7.58	7.20	7.20	7.76	8.32	8.97	9.06	9.21	9.23	9.29	8.79	—
	17	8.96	8.34	7.69	7.71	8.08	8.66	9.02	9.44	9.76	9.51	9.07	8.30	—
	18	7.46	6.82	6.43	6.25	6.40	6.70	7.33	7.97	7.91	7.91	7.55	7.01	—
	19	6.96	6.09	5.77	5.88	6.45	6.96	7.93	8.10	8.30	8 00	7.29	6 70	—
	20	6.60	6.19	5.96	5.92	5.99	6 60	6.91	7.37	7.51	7 53	7.30	6.90	—
	21	7.10	6.66	6.52	6.54	6.71	7.20	7.67	8.05	8.51	8 61	8.24	8.13	—
	22	7.69	7.41	6.92	6.85	6.60	6.82	7.57	7.96	8.32	8.29	8.20	7.37	—
	23	7.46	7.17	6.84	6.55	6.57	6.85	7.32	7.91	8.02	7.96	7.84	7.34	—
	24	6.96	6.67	6.32	5.92	6.07	6.33	6.60	7.67	7.79	7.63	6.95	6.20	—
	25	6.92	6.38	6.08	5.90	6.06	6.51	6 87	7.41	7.57	7.65	7 53	7.03	—
	26	7.20	6.66	6.57	6.55	6.86	7.06	7.65	7.91	8.44	8.26	7.89	7.54	—
	27	7.11	6.77	6.42	6.03	5.90	6.25	7.05	7.97	8.31	8.30	8.19	7.33	—
	28	6.95	6.36	6.22	5.99	6.35	6.36	6.70	7.15	7.51	7.50	6.94	6.38	—
	29	6.60	5.87	5.62	5.34	5.40	5.46	5.57	5.92	6.00	6.00	5 76	5.54	—
	30	6.31	5.92	5.53	5.23	5.40	5.87	6.28	6.73	6.82	6.76	6.33	6.03	—
	31	5.85	5.31	5.22	5.08	5.18	5.40	6.06	6.53	6.64	6.57	6 70	6.08	—
Hourly Means.		7.87	7.43	7.11	7.05	7.26	7.65	8.17	8.56	8.74	8.66	8.39	7.86	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	8.20	7.68	7.24	6.99	6.99	7.54	7.99	8.41	8.74	8.92	9.11	8.98	8.65
	2	7.75	6.84	6.18	6.12	6.19	6.67	7.64	8.03	8.15	8.62	8 94	8.73	8.04
	3	7.98	7.30	6.65	6.25	6.28	6.53	7.69	8.29	9.01	9.37	9.29	8.80	8.35
	4	7.96	6.79	6.17	5.82	6.16	6.57	7.40	7.65	8.14	8.39	8.26	8.01	7.94
	5	6.94	6.14	5.27	5.12	5.71	6.63	7.24	7.75	8.35	8.46	8.36	7.72	7.39
	6	7.38	6.68	6.32	6.29	6.20	7.07	7.41	7.91	8.50	8.95	8.91	8.54	7.74
	7	7.88	7.34	6.74	6.61	6.99	7.28	8.11	8.89	9.65	9.58	9.49	9.10	8.15
	8	7.96	7.16	6.63	6.89	7.59	8.24	9.09	9.77	9.90	10.33	10.29	10.26	8.68
	9	9.70	9.14	8.61	8.26	8.48	8.66	8.79	9.12	9.69	10.04	9.95	9.78	9.62
	10	9.02	8.34	7.61	7.13	7.46	8.03	8.63	9.35	9.85	10.15	9.99	9.49	9.20
	11	8.45	7.84	7.48	7.05	7.65	8.20	8.75	8.90	9.44	9.62	9.50	9.35	8.89
	12	9.34	8.64	8.44	8.05	7.99	8.65	9.55	10.03	10.46	10.33	10.36	10.23	9.23
	13	8.68	7.70	6.97	6.76	7.06	7.55	8.45	9.06	9.52	9.95	9.64	9.53	9.08
	14	7.10	6.16	5.28	6.22	6.53	7.29	7.39	7.85	8.11	8.22	7.89	7.71	7.90
	15	6.27	5.86	5.44	5.78	6.38	7.48	7.54	8.21	8.67	8 68	8.27	8.02	7.35
	16	8.41	7.85	7·65	7.64	7.82	8.19	8.50	8.82	9.35	9.41	9.54	9.18	8 45
	17	7.10	6.22	5.69	5.38	5 40	5.73	6.45	7.11	7.67	8.02	8.14	7.90	7.72
	18	6.25	5.59	4.90	4.86	5.13	5.89	6.99	7.64	8.33	8.50	8.12	7.66	6.90
	19	5.79	5.29	4.69	4.59	4.72	5.65	6.20	6.98	7.29	7.21	7.28	6 91	6.54
	20	6.19	5.59	5.09	4.89	5.46	5.86	6.12	6.82	7.20	7.44	7.69	7.20	6.51
	21	7.07	6.63	5.87	5.29	5.45	6.18	6.63	7.31	7.75	8.09	8.60	8.20	7.21
	22	6.63	5.87	5.37	5.96	5.89	6.61	6.70	7.09	7.66	8.17	8.19	7.85	7.17
	23	6.88	6 11	5.54	4.94	5 13	5.87	6.89	7.49	7.81	8.40	8.42	7.85	7.05
	24	5.54	5.19	4.18	3.82	4.42	5.39	6.64	7.05	7.95	7.71	7.64	7.26	6.41
	25	6.24	5.63	5.00	4.74	5.10	5.58	5.93	6.51	6.91	7.57	7.96	7.60	6.53
	26	6.65	5.92	5.18	5.18	5.41	6.27	6.93	7.25	7.79	7.82	7·95	7.72	7.03
	27	7.29	6.56	6.04	5.67	5.83	6.34	6.82	7.12	7.43	7.81	7.90	7.67	6.99
	28	5.75	4.91	4.80	4.57	4.62	5.14	5.90	6.64	6.95	7.47	7.21	7.09	6.31
	29	4.70	4.27	3.49	4.06	4.94	5.26	5.56	6 37	6.74	6.95	7.35	6.95	5.66
	30	4.98	4.52	4.12	3.84	4.28	5.05	4.96	5.56	6.06	6.34	6.35	6.17	5.64
	31	5.54	5.27	4.54	4.32	4.55	4.99	5.18	5.50	5.52	6.16	6.09	5.40	5.57
Hourly Means.		7.15	6.48	5.91	5.78	6.06	6.66	7.23	7.76	8.21	8.47	8.47	8.16	7.55

STANDARD THERMOMETER.

JANUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	72.5	72.2	71.8	71.2	70.7	70.3	71.0	73.3	76.8	79.0	79.2	79.8	—
2	75.3	75.0	74.4	74.2	73.7	73.4	74.1	76.0	78.9	81.5	83.0	83.3	—
3	74.8	74.2	73.9	73.2	72.9	72.2	72.6	74.5	77.3	79.9	80.9	82.0	—
4	76.0	75.6	75.4	75.0	75.0	75.1	75.3	77.1	80.0	82.6	83.7	83.8	—
5	75.2	75.2	74.9	74.4	73.2	72.7	74.0	77.2	80.3	83.0	85.0	86.0	—
6	74.9	74.5	75.0	75.0	74.9	75.2	75 8	78.5	81.3	81.0	81.0	83.0	—
7	74.5	73.8	73.2	72.7	72.5	72.0	73.2	77.0	79.6	80.1	82.0	84.0	—
8	76.0	75.5	75.3	75.5	75.2	75.0	76.0	78.1	80.7	82.0	81.8	84.2	—
9	73.5	74.0	73.9	73.7	73.7	73.5	73.9	75.2	77.0	78.4	79.8	80.2	—
10	75.0	74.9	74.6	74.0	73 6	73.2	74.4	77.4	80.2	81.0	83.5	84.0	—
11	74.5	74.7	74.5	74.6	74.5	74.2	74.7	76.7	79.7	82.1	81.9	82.2	—
12	74.3	74.0	73.5	73.6	73.6	73.6	75.0	76.1	79.7	79.1	79.6	79.2	—
13	73.3	73.3	73.1	72.8	72.5	72.1	73.1	76.5	78.6	80.1	81.0	82.5	—
14	75.9	75.5	75.2	75.3	75.0	75.0	75.7	78.0	80.2	83.1	84.3	84.3	—
15	74.1	74.0	74.0	74.0	74.0	73.7	74.3	76 1	78.1	81.0	82.3	81.8	—
16	74.0	74.0	73.8	73.5	73.2	73.2	73.6	73.8	74.1	75.0	77.7	78.3	—
17	73.0	72.3	72.3	71.9	71.6	71.2	72.0	75.0	78.2	79.5	81.4	82.0	—
18	75.9	75.9	75.5	75.7	75.3	75.1	76.5	77.1	78.6	80.1	80.7	83.1	—
19	75.3	74.9	74.3	73.9	73.6	73.6	74.3	76.9	80.5	81.3	83.1	84.1	—
20	76.5	75.8	75.4	75.0	75.0	75.1	76.0	78.3	80.4	82.2	83.0	84.2	—
21	77.5	77.1	77.3	76.5	76.0	75.5	76.0	78.8	80.0	81.8	81.8	79.9	—
22	76.9	76.5	76.3	75.7	75.5	75.0	76.0	78.1	80.2	82.6	83 2	83.9	—
23	75.2	75.1	74.9	74.7	74.2	74.0	74.1	75.2	77.7	80.9	83.3	83.7	—
24	75.0	74.5	74.4	74.5	74.2	74.3	74.9	76.5	79.8	82.0	84.7	85.6	—
25	74.0	73.8	73.7	73.7	73.7	73.1	73.8	76.0	78.4	80.9	81.5	82.8	—
26	76.0	75.6	75.0	74.7	75.0	75.0	75.0	75.6	76.9	78.7	81.1	82.0	—
27	74.4	74.0	74.0	73.7	73.7	73.6	75.0	77.0	79.0	80.0	81.1	83.0	—
28	76.7	76.3	76.1	75.4	75.2	74.8	75.0	76.3	77.9	79.8	81.8	83.1	—
29	76.0	75.5	75.2	74.9	74.9	75.1	75.4	76.6	79.4	82.4	84.6	84.5	—
30	75.0	74.5	74.2	74.2	74.0	73.6	73.9	75.1	78.3	80.8	83.3	83.0	—
31	75.1	74.9	74.7	75.0	75.0	75.0	75.0	76.7	78.5	80.5	81.0	81.7	—
Hourly Means.	75.04	74.75	74.51	74.26	74.04	73.82	74.50	76.47	78.91	80.72	82.01	82.75	—

JANUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	81.8	81.6	80.0	79.0	79.4	78.6	77.9	77.0	76.6	76.0	75.7	75.7	76.13
2	84.0	83.2	83.0	83.0	82.4	81.0	80.0	78.9	78.3	76.9	75.9	75.0	78.52
3	83.0	85.0	83.5	82.0	81.5	80.5	79.0	78.2	77.9	78.0	77.2	76.6	77.95
4	83.7	84.7	84.6	82.8	82.6	81.5	80.5	79.6	79.1	78.2	77.5	76.5	79.41
5	86.0	87.2	86.2	84.7	82.9	78.2	76.7	76.6	76.6	76.4	75.9	75.2	78.90
6	83.0	84.3	82.1	81.5	80.9	80.0	78.7	78.0	77.0	76.0	75.0	75.0	78.40
7	84.2	84.2	84.0	83.0	81.5	80.6	79.5	78.9	78.3	77.8	77.0	76.4	78.33
8	84.5	83.4	83.2	82.5	80.2	76.0	75.0	75.0	74.8	74.4	74.0	73.7	78.00
9	80.7	80.5	80.0	80.0	79.4	78.7	78.1	77.3	76.8	76.1	75.5	75.2	76.88
10	84.4	84.1	83.0	82.0	82.0	81.2	79.3	78.7	76.9	76.6	75.2	74.7	78.50
11	82.0	81.8	81.7	81.2	80.7	80.0	79.0	77.0	76.0	76.0	75.0	74.6	77.89
12	77.1	79.0	78.3	78 0	76.8	76.1	75.5	75.3	74.9	74.4	74.0	73.8	76.02
13	82.0	83.1	83.0	83.2	82.0	81.0	80.0	79.0	78.1	77.1	76.5	76.0	77.91
14	82.9	84.2	82.5	81.9	78.0	76.6	75.5	75.1	75.1	75.0	74.8	74.6	78.07
15	83.7	83.0	83.2	82.8	81.8	77.5	74.8	74.6	74.3	74.2	74.0	73.8	77.30
16	76.0	76.5	77.9	78 0	78.0	77.5	76.8	76.2	75.8	75.0	74.7	74.8	75.48
17	82.8	83.0	83.2	82.4	81.8	80.5	79.3	77.8	76.8	76.5	76.1	75.9	77.35
18	83.0	83.3	83.5	83.0	82.4	81.1	80.0	79.5	78.5	77.6	76.5	76.0	78.91
19	84.2	84.1	83.1	82 6	82.0	81.3	80.4	80.2	80.0	78.9	77.1	77.0	79.03
20	84.8	85.0	83.3	83.3	82.1	81.9	80.9	80.2	79.2	78.2	77.6	77.3	7.961
21	80.0	82.1	82.5	81.8	81.8	80.9	80.0	79.5	78.7	78.7	77.7	77.3	79.13
22	84 0	84 8	84.7	81.4	78.5	77.9	77.5	77.0	76.5	76.3	76.2	75.9	78.78
23	84.8	85.0	84.0	84.2	83.4	82.0	78.9	76.0	75.6	75.4	75.0	75.0	78.43
24	84.9	84.6	84.6	74.1	82.6	82.1	76 4	74.5	74.7	73.6	74.0	73.7	78.34
25	84.0	84.6	83.6	83.3	82.2	81.5	80.4	78.9	77.5	76.6	76.2	76.0	78.34
26	83.0	83.7	84.1	83.3	82.5	81.9	77.3	76.4	76.2	75 6	75 2	75.6	78.12
27	83.0	84.2	84 5	84.2	84.2	82.7	81.3	79.9	78.9	77.9	77.4	77.0	78.90
28	84.7	85.0	80.0	81.5	80.5	79.7	79.0	78.0	78.0	77.2	77.0	76.4	78.56
29	85.5	85.7	84.6	79.5	75.7	75.0	75.0	75.0	75.0	75.2	75.0	75.0	77.95
30	83.2	84.0	82.0	80.8	80.0	78.2	76.7	75.2	75.0	75 4	75.1	75.0	77.52
31	81.9	81.7	83.1	81.7	80.6	79.6	78.9	78.4	77.9	77.5	77.3	77.1	78.28
Hourly Means.	82.99	83.44	82.81	82.02	80.98	79.72	78.33	77.48	76.94	76 41	75.85	75.52	78.09

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.	1 A. M	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY. 1	982	964	973	963	1000	982	963	938	900	854	855	833	—
2	922	930	939	939	947	956	956	899	831	762	703	697	—
3	930	938	938	946	946	964	973	947	835	766	755	729	—
4	889	922	930	939	930	939	914	866	781	716	706	741	—
5	930	922	939	956	946	946	938	788	716	671	634	637	—
6	930	956	930	983	956	983	899	799	685	740	761	753	—
7	938	956	964	964	955	964	946	851	802	788	750	667	—
8	898	922	930	931	947	956	923	861	797	751	750	675	—
9	938	947	938	947	947	956	956	939	900	830	773	766	—
10	956	947	965	973	956	955	930	867	774	747	653	655	—
11	965	965	973	973	965	965	973	891	786	744	764	772	—
12	938	938	946	937	937	955	947	940	833	855	855	832	—
13	965	965	964	964	973	964	946	899	831	804	798	766	—
14	898	931	939	939	947	947	940	892	811	725	729	736	—
15	965	965	965	965	965	973	965	915	846	783	702	742	—
16	938	938	947	956	965	965	965	965	956	947	876	837	—
17	955	964	964	964	964	972	955	947	853	809	762	742	—
18	957	948	957	957	957	956	940	949	901	834	819	718	—
19	930	930	939	938	947	947	939	874	797	762	746	680	—
20	890	923	931	939	939	939	940	846	804	772	724	701	—
21	925	941	941	957	948	948	940	862	818	777	785	824	—
22	949	948	948	957	957	956	915	868	819	738	747	741	—
23	930	939	939	939	947	947	938	922	813	740	672	673	—
24	956	965	965	956	965	965	956	924	825	737	696	655	—
25	956	956	956	956	956	973	965	931	862	790	784	710	—
26	915	914	922	922	914	939	947	948	924	862	821	793	—
27	939	947	947	956	956	938	930	883	862	863	813	767	—
28	948	966	948	966	956	930	922	899	868	803	742	725	—
29	915	923	939	939	939	930	931	916	855	737	689	695	—
30	965	973	973	973	973	982	982	966	861	836	754	810	—
31	905	871	871	871	888	897	897	866	846	804	805	777	—
Hourly Means.	936	942	946	950	951	954	943	899	832	785	756	737	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY. 1	764	771	825	902	902	909	933	941	932	931	923	923	911
2	742	740	712	703	722	769	810	846	845	891	923	939	838
3	697	696	733	742	726	767	801	853	876	892	916	857	843
4	768	737	730	745	759	770	834	848	870	901	883	906	834
5	642	629	662	682	731	821	874	874	891	899	915	930	816
6	767	716	701	763	775	803	846	868	874	881	922	930	843
7	657	636	674	767	770	789	840	885	908	892	900	882	839
8	676	704	732	744	730	898	913	913	922	939	947	947	850
9	768	774	795	773	794	815	860	883	915	931	931	939	876
10	643	648	690	686	714	769	863	885	932	932	922	947	834
11	750	771	784	783	804	840	878	882	898	905	930	939	871
12	883	838	893	901	924	957	957	948	956	973	965	965	920
13	771	746	767	753	784	797	840	885	829	851	850	873	858
14	766	762	744	800	877	916	931	956	956	956	956	965	876
15	720	732	739	738	763	852	888	913	921	930	947	947	868
16	948	948	917	908	908	917	932	932	940	956	956	956	936
17	731	711	725	722	742	788	839	892	907	932	940	940	863
18	690	712	719	739	758	805	863	878	893	933	940	923	865
19	694	715	747	766	765	799	842	872	879	885	883	891	840
20	664	665	754	719	764	771	827	849	886	908	917	932	834
21	895	758	773	778	785	790	825	863	901	909	933	941	867
22	708	702	696	734	799	820	852	866	890	899	915	923	848
23	709	703	734	693	760	792	830	923	923	931	947	956	846
24	697	696	696	722	745	765	906	904	939	946	956	965	854
25	721	696	748	760	786	821	864	808	851	882	899	915	856
26	781	720	721	725	772	814	843	857	881	905	922	922	862
27	746	715	702	708	695	752	813	864	885	917	932	940	853
28	716	737	871	828	834	879	902	925	925	924	924	915	877
29	686	661	702	824	905	930	939	956	947	947	966	966	868
30	775	749	771	819	895	933	940	930	917	939	956	965	903
31	736	763	732	713	753	786	800	814	805	827	827	818	820
Hourly Means.	739	727	748	763	788	827	867	888	901	914	924	928	860

DIRECTION OF THE WIND.

JANUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	C	C	C	C	C	NNW	N	N	NNW
2	C	C	C	C	C	C	C	C	W	WNW	NNW	NNW
3	C	C	C	C	C	C	C	NNW	NW	NW	NW	NNW
4	C	C	C	C	SSW	SSW	SSW	C	NNW	NW	NW	NNE
5	N	C	C	C	C	C	N	SW	SW	WSW	SW	NW
6	C	C	C	C	C	SE	C	SE	SE	N	N	N
7	C	C	C	C	C	C	C	W	ESE	E	E	NNE
8	C	C	C	C	C	C	C	N	NNW	NW	N	NNW
9	C	SSW	WNW	C	C	C	C	C	WNW	NNW	NNW	NNW
10	C	C	C	C	C	C	C	N	NW	NW	NW	NNW
11	C	ENE	C	C	C	C	ESE	SE	S	S	NE	NNE
12	C	C	C	C	C	C	C	C	NE	NNW	NNW	N
13	C	C	C	C	C	C	C	C	C	N	N	NNE
14	C	C	C	C	C	C	C	C	WSW	NNW	NW	N
15	C	C	C	C	C	C	C	C	C	C	NW	N
16	C	C	C	C	C	C	C	C	C	C	C	NW
17	NW	C	C	C	C	C	C	C	NW	NW	WNW	NNW
18	C	C	C	C	C	C	C	C	C	N	N	NNE
19	C	C	C	C	C	C	C	C	NW	N	N	NNE
20	C	C	C	C	C	C	C	C	NNE	NNE	N	N
21	C	C	C	C	C	C	C	C	ENE	N	NW	NNW
22	C	C	C	C	C	C	C	C	NNW	NNW	NNW	N
23	C	C	C	C	C	C	C	C	C	NNW	N	NNW
24	C	C	C	C	C	C	C	C	SSW	ENE	E	E
25	C	C	C	C	C	C	C	C	C	WSW	NNE	NE
26	C	C	C	C	C	C	C	C	C	C	S	NE
27	C	C	C	C	C	C	C	C	N	N	NNW	NW
28	C	C	C	C	C	C	C	C	W	WNW	NW	NW
29	C	C	C	C	C	C	C	C	W	WSW	WNW	W
30	C	C	C	C	C	C	C	C	C	NW	WNW	NE
31	WSW	WSW	C	C	C	C	C	C	W	WNW	WNW	W

JANUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NNW	NW	N	C	C	C	C	C	C	C	C	C
2	N	N	NNW	NNW	NNW	N	C	C	C	C	C	C
3	NW	NW	NNW	NNW	N	NNW	C	C	C	NNW	SSW	C
4	NNE	N	N	NNW	NNW	N	N	C	C	C	C	C
5	N	N	NNE	N	W	ESE	C	C	C	C	C	C
6	NW	N	WNW	W	W	C	C	C	C	C	C	C
7	NE	NNE	N	NNE	N	N	C	C	C	C	C	C
8	N	NNE	NNE	N	SW	C	C	C	C	C	C	C
9	N	NNW	NW	N	NNW	N	C	C	C	C	C	C
10	NNW	NNW	NNE	N	NNW	N	C	C	C	N	E	C
11	NNE	N	N	N	NW	C	C	C	C	C	C	C
12	N	N	NNE	NE	C	C	C	C	C	C	C	C
13	N	N	N	N	N	N	C	N	C	C	C	C
14	N	N	N	N	NW	C	C	C	C	C	C	C
15	NNE	NNE	NNE	N	WNW	W	S	C	C	C	C	C
16	C	C	C	C	C	C	C	C	C	C	C	WNW
17	NNW	NNW	NNW	N	N	N	C	C	C	C	C	C
18	N	N	NNW	NNE	N	N	C	C	N	W	WSW	C
19	NNE	N	N	N	N	N	C	C	C	C	C	C
20	NNE	N	NNE	NNE	N	N	N	C	C	C	C	C
21	NNW	NNW	NNE	N	N	N	C	C	C	C	C	C
22	NNE	NNE	NNW	SW	S	SSW	C	C	C	C	C	C
23	NNE	N	N	N	N	N	S	C	C	C	C	C
24	NNE	NNE	NNE	NNE	N	N	W	SW	SW	SW	C	C
25	NE	NE	NNE	NNE	NE	C	NNE	C	C	C	C	C
26	NNE	NNW	NNW	NNE	N	N	SW	C	C	C	C	C
27	NNW	NNW	NNW	NW	NW	C	C	C	C	C	C	C
28	NW	WNW	NW	SW	C	C	C	C	C	C	C	C
29	W	NNW	NNE	WSW	SW	C	C	C	C	C	C	C
30	N	N	N	N	C	SSW	S	SSW	SSW	C	C	C
31	WNW	W	W	WNW	W	WSW	WNW	W	W	C	W	W

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6	8.0	10.5	—
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.8	7.2	9.7	—
	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.4	5.6	6.4	6.4	—
	4	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.0	1.6	3.2	3.2	3.2	—
	5	0.8	0.0	0.0	0.0	0.0	0.0	0.8	3.2	4.0	4.8	1.6	4.8	—
	6	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	1.6	4.0	1.6	3.2	—
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.4	0.8	2.4	4.8	—
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.4	4.8	7.2	7.2	—
	9	0.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0	1.6	9.7	8.9	8.0	—
	10	0.0	0.0	0 0	0.0	0.0	0.0	0.0	1.6	5.6	6.4	8.9	8.9	—
	11	0.0	0.8	0.0	0.0	0.0	0.0	1.6	0.8	3.2	1.6	8.9	10.5	—
	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	4.8	—
	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.8	—
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	4.8	—
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.0	—
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 0	0.0	0.0	0.0	3.2	—
	17	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	4.8	—
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 0	0.0	0.0	0.8	4.0	6.4	—
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.6	4.8	9.7	—
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.6	6.4	8.0	—
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 0	0.0	0.8	4.8	8.0	4.0	—
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2	6.4	—
	23	0.0	0.0	0 0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.8	—
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	4.0	6.4	—
	25	0.0	0.0	0.0	0.0	0.0	0 0	0.0	0.0	0.0	0.8	1.6	2.4	—
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.4	—
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	5.6	—
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.0	4.0	—
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	2.4	—
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.8	—
	31	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	1.6	1.6	—
Hourly Means.		0.10	0.15	0.03	0.00	0.03	0.05	0.10	0.36	1.75	2.79	3.83	5.44	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	10.5	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.14
	2	9.7	10.5	10.5	10.5	9.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	3.26
	3	6.4	8.9	12.1	11.3	5.6	2.4	0.0	0.0	0.0	2.4	3.2	0.0	3.28
	4	8.0	5.6	8.9	6.4	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0	2.10
	5	8.0	7.2	11.3	8.0	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.60
	6	7.2	8.0	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0 0	0.0	0.0	1.47
	7	12.1	12.9	11.3	11.3	8.9	3 2	0.0	0.0	0.0	0.0	0.0	0.0	2.99
	8	9.7	9.7	11.3	8.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.92
	9	6.4	8.0	6.4	5.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.68
	10	9.7	9.7	8.0	4.8	1.6	0.8	0.0	0.0	0.0	2.4	4.0	0.0	3.02
	11	13.7	8.9	8.9	6 4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.79
	12	3.2	6.4	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.03
	13	3.2	3.2	4.8	5.6	4.0	0.8	0.0	0.8	0.0	0.0	0.0	0.0	1.07
	14	8.0	8.9	3.2	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24
	15	7.2	9.7	9.7	4.8	2.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0	1.74
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.27
	17	4.8	5.6	5.6	6.4	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.57
	18	7.2	8.9	10.5	8.0	4.8	0.8	0.0	0.0	0.8	0.8	0.8	0.0	2.24
	19	10.5	8.9	8.0	7.2	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.45
	20	9.7	8.9	8.0	6.4	3.2	0.8	0.8	0.0	0.0	0.0	0.0	0.0	2.48
	21	3.2	3.2	4.8	2.4	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.43
	22	10.5	8.9	8.9	8.9	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.35
	23	8.0	8.9	8.0	5.6	4.0	1.6	4.0	0.0	0.0	0.0	0.0	0.0	1.84
	24	8.9	11.3	12.9	12.1	7.2	2.4	2.4	0.8	0.8	0.8	0.0	0.0	3.08
	25	6.4	8.0	8.9	6.4	4.8	0.0	0.8	0,0	0.0	0.0	0.0	0.0	1.67
	26	8.0	7.2	6 4	6.4	3.2	2.4	1.6	0.0	0.0	0.0	0.0	0.0	1.83
	27	6.4	7.2	7.2	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.53
	28	5.6	8.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.23
	29	1.6	3.2	8.0	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.10
	30	6.4	6.4	4.0	0.8	0.0	1.6	1.6	0.8	0.8	0.0	0.0	0.0	1.23
	31	3.2	1.6	4.0	4.8	3.2	2.4	0.8	0.8	0.8	0.0	0.8	0.8	1.37
Hourly Means.		7.21	7.48	7.32	5.67	3.28	1.11	0.46	0.10	0.10	0.21	0.28	0.13	2.00

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	1	0	0	0	0	0	9	7	7	9	10	10	—
	2	6	5	6	7	7	6	7	6	5	4	3	3	—
	3	1	2	2	1	3	6	7	5	7	5	6	8	—
	4	8	6	9	9	10	8	4	4	3	5	6	5	—
	5	6	5	5	7	6	6	5	6	6	3	1	4	—
	6	3	10	10	10	9	9	10	6	7	10	9	7	—
	7	6	4	3	4	6	6	2	0	4	6	6	3	—
	8	10	8	9	10	8	0	3	2	1	6	7	5	—
	9	9	10	10	10	9	10	10	10	10	10	10	10	—
	10	7	10	9	5	5	6	6	3	4	6	6	6	—
	11	10	10	9	10	9	7	10	7	7	5	9	8	—
	12	6	4	5	6	7	7	10	10	9	10	10	10	—
	13	8	9	3	4	9	6	4	2	7	9	10	6	—
	14	10	10	9	9	8	8	5	4	2	2	7	9	—
	15	10	10	10	10	9	10	7	6	8	6	5	9	—
	16	6	9	9	9	10	10	10	10	10	10	10	10	—
	17	10	10	10	6	6	6	6	5	6	7	7	6	—
	18	8	7	6	8	7	10	6	10	10	6	9	7	—
	19	2	1	1	2	2	3	3	3	5	4	5	3	—
	20	6	7	7	7	6	8	3	5	6	7	7	6	—
	21	2	3	3	2	0	2	6	7	7	9	9	10	—
	22	5	4	7	10	10	7	5	4	5	6	9	8	—
	23	9	9	9	7	8	8	6	8	7	6	6	9	—
	24	9	9	6	7	9	10	10	9	4	3	4	7	—
	25	10	10	9	9	10	10	9	9	8	7	10	7	—
	26	4	1	1	1	8	9	10	10	10	10	7	7	—
	27	6	7	6	6	5	7	8	9	9	10	10	9	—
	28	3	2	2	3	3	5	10	7	8	7	8	7	—
	29	4	7	9	10	7	10	9	6	4	5	8	9	—
	30	7	9	9	7	7	9	10	4	3	6	6	7	—
	31	10	9	10	10	10	10	10	9	10	10	10	10	—
Hourly Means.		6.5	6.7	6.5	6.6	6.9	7.1	7.1	6.2	6.4	6.7	7.4	7.3	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	7	8	10	9	7	8	9	5	4	6	4	5	5.6
	2	7	7	7	3	4	6	6	5	2	1	1	1	4.8
	3	5	6	7	6	5	6	7	9	9	10	10	10	6.0
	4	5	4	3	6	4	3	1	3	1	1	2	3	4.7
	5	4	3	3	6	10	10	10	7	10	10	7	6	6.1
	6	6	6	8	8	7	8	3	4	3	3	7	7	7.1
	7	2	2	3	5	6	6	4	3	7	8	9	8	4.7
	8	4	3	3	4	10	10	10	10	7	7	5	6	6.2
	9	10	10	10	6	6	8	4	5	2	6	7	6	8.3
	10	3	3	6	6	8	10	10	10	10	10	10	10	7.0
	11	8	9	8	7	4	2	2	1	7	3	2	2	6.5
	12	10	10	10	10	10	10	4	6	4	2	1	2	7.2
	13	10	6	3	4	6	10	9	10	10	10	10	10	7.3
	14	10	6	10	10	10	10	10	10	10	10	10	10	8.3
	15	4	5	5	7	10	10	10	10	7	6	6	7	7.8
	16	10	10	10	10	10	10	8	8	7	7	8	8	9.1
	17	7	8	7	5	5	6	4	3	1	3	4	6	6.0
	18	3	4	2	4	2	4	6	9	9	10	10	9	6.9
	19	6	4	6	4	3	4	2	10	9	8	6	7	4.3
	20	4	8	9	8	7	7	5	10	6	6	7	6	6.6
	21	9	7	9	7	7	4	3	5	8	8	8	7	5.9
	22	6	5	5	9	9	9	9	9	9	10	10	8	7.4
	23	6	5	4	4	4	5	9	10	10	9	9	9	7.3
	24	6	5	4	3	6	8	10	10	10	10	10	10	7.5
	25	8	6	5	5	7	8	7	10	6	9	10	8	8.2
	26	7	6	5	4	4	10	8	7	5	4	3	3	6.0
	27	9	7	7	6	9	9	6	2	3	2	3	4	6.6
	28	7	10	10	9	10	9	9	9	9	9	10	9	7.3
	29	8	8	9	10	10	9	10	10	10	10	9	7	8.3
	30	7	8	8	10	10	10	10	10	10	10	10	10	8.2
	31	10	10	10	10	10	10	10	10	9	10	10	10	9.9
Hourly Means.		6.7	6.4	6.6	6.6	7.1	7.7	6.9	7.4	6.9	7.0	7.0	6.9	6.86

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY. 1	9.0	7.3	8.0	7.7	7.9	11.1	14.6	8.9	8.0	3.8	2.1	0.9	—
2	2.8	2.7	2.3	2.6	3.8	3.8	5.5	3.8	2.0	1.9	2.1	1.4	—
3	5.2	5.0	4.2	3.8	6.1	8.2	15.6	8.3	4.2	4.0	3.0	2.5	—
4	3.6	5.8	3.3	2.5	2.6	4.0	6.0	5.8	3.9	2.2	1.6	0.7	—
5	6.0	4.1	4.3	3.2	3.6	7.0	7.7	3.1	2.5	2.8	2.1	1.4	—
6	13.0	10.5	8.2	7.1	6.3	5.9	8.6	5.6	2.1	1.2	0.8	1.3	—
7	14.5	15.0	14.7	14.8	14.6	16.6	12.6	9.8	3.5	2.3	1.5	1.1	—
8	11.4	11.2	8.3	8.8	11.3	10.9	10.1	5.6	3.2	2.1	1.4	1.6	—
9	14.4	7.0	N	5.2	7.0	9.8	11.1	6.9	4.4	2.6	2.8	2.4	—
10	11.8	11.9	11.5	10.2	10.5	12.2	11.9	9.6	4.4	4.3	3.2	2.8	—
11	3.5	6.0	8.6	8.8	11.2	11.2	11.5	5.5	3.1	2.2	4.1	3.1	—
12	14.9	15.0	13.5	11.2	12.6	11.7	4.9	13.5	9.1	2.5	5.8	P	—
13	14.4	13.5	13.1	11.9	9.2	12.0	10.5	7.4	4.8	2.9	3.2	2.7	—
14	4.2	3.0	6.5	5.2	6.3	10.1	10.7	5.1	3.2	3.0	2.1	2.4	—
15	12.6	9.8	9.8	7.3	9.6	13.0	15.5	7.0	2.9	2.8	3.1	1.4	—
16	13.4	9.4	13.2	12.2	8.0	— 2.5	N	10.9	5.2	4.9	4.9	16.2	—
17	— 4.1	—19.4	0.3	2.4	4.1	4.3	8.8	7.0	3.4	2.4	2.0	1.7	—
18	4.2	4.2	5.6	4.1	3.5	7.0	9.4	4.1	3.1	3.8	3.1	2.1	—
19	5.6	6.3	7.3	6.2	5.9	14.1	11.9	7.6	6.2	5.1	3.8	2.5	—
20	8.2	7.9	7.9	8.8	6.1	14.1	14.1	11.9	4.8	3.1	2.4	2.1	—
21	7.8	N	5.9	5.6	4.5	— 3.0	—10.1	8.1	6.3	5.0	6.0	N	—
22	7.4	11.5	9.5	3.8	12.7	14.0	2.9	3.9	2.2	2.2	2.4	1.7	—
23	12.7	12.1	9.2	8.0	7.9	9.7	9.9	7.6	6.2	2.9	1.7	1.5	—
24	11.2	10.4	11.8	12.1	9.3	10.1	10.1	5.7	2.8	2.4	2.7	2.6	—
25	9.0	8.3	8.0	8.7	11.2	11.1	10.5	8.7	4.2	3.0	2.0	2.2	—
26	10.8	11.1	11.5	12.9	— 6.3	N	P	7.0	7.2	6.1	3.4	3.3	—
27	10.2	9.9	9.0	8.8	8.0	15.4	16.6	3.7	14.2	— 0.4	2.8	2.8	—
28	—16.4	5.9	8.6	9.9	7.6	7.8	7.6	5.4	3.6	3.1	2.8	2.4	—
29	5.6	6.1	6.1	5.3	5.4	6.6	6.6	4.6	4.2	3.0	2.8	4.2	—
30	7.5	7.4	9.7	9.0	8.9	12.5	10.9	6.0	5.4	4.2	4.0	3.4	—
31	—	—	—	—	—	—	—	3.8	3.4	3.0	2.4	2.2	—
Hourly Means.	7.8	7.5	8.3	7.6	7.3	9.3	9.5	6.8	4.6	3.0	2.8	2.6	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY. 1	3.9	3.8	5.0	1.5	1.9	3.7	5.9	7.0	3.8	2.9	4.4	2.4	5.6
2	1.3	1.1	1.5	1.6	1.8	3.8	5.7	6.8	6.2	6.7	6.6	8.4	3.6
3	2.1	2.2	1.7	1.8	2.6	4.9	5.8	7.7	8.0	8.5	—21.1	3.3	4.1
4	1.7	2.1	1.4	3.2	0.3	—13.8	— 2.3	7.7	9.9	6.9	7.2	5.9	3.0
5	1.4	1.0	0.9	0.4	—10.5	6.1	1.7	5.1	7.2	4.2	8.8	12.3	3.6
6	12.2	5.5	—13.3	5.4	3.2	5.2	9.8	11.9	11.3	12.9	16.8	15.1	6.9
7	1.9	2.8	2.5	1.9	2.8	6.3	9.5	8.9	— 4.2	8.2	7.4	15.1	7.7
8	1.4	1.8	2.1	6.6	15.0	—21.1	9.7	9.7	12.6	14.7	13.7	14.9	7.0
9	2.4	2.8	2.8	3.3	4.4	7.6	9.5	11.8	14.5	14.3	15.5	12.6	7.6
10	1.7	1.8	2.0	2.8	3.1	4.9	3.9	N	N	P	—16.5	P	5.4
11	2.8	3.7	3.2	3.8	5.9	9.9	11.5	12.9	12.8	11.1	11.3	13.9	7.6
12	—11.2	23.9	— 1.8	— 0.7	—16.8	3.5	10.0	13.4	13.2	13.9	13.5	11.5	8.1
13	2.1	2.6	2.6	2.6	3.0	5.9	8.5	10.1	9.5	8.1	N	3.5	7.1
14	2.4	2.4	P	9.1	P	N	N.	N	— 4.9	4.9	7.6	8.8	4.8
15	3.4	3.8	4.5	12.6	18.1	P N	1.7	— 3.9	6.6	8.4	11.9	13.3	7.6
16	P	14.0	2.5	2.8	3.3	7.3	7.0	8.2	7.0	5.9	8.0	10.5	7.8
17	1.6	1.6	2.1	2.1	2.4	3.1	4.2	4.8	— 0.5	1.9	1.8	2.8	1.7
18	2.2	2.3	2.1	3.5	7.3	13.7	15.6	—13.0	21.1	— 1.8	4.0	5.0	4.8
19	1.7	1.7	1.4	1.8	2.8	5.6	6.8	7.0	6.5	6.3	8.0	7.3	5.8
20	1.6	1.5	1.7	2.1	2.9	4.7	6.7	8.0	8.1	7.4	9.2	7.3	6.4
21	2.8	2.1	1.7	2.4	1.9	5.2	9.6	8.2	9.0	6.6	1.7	3.8	4.1
22	1.9	1.8	4.3	— 6.8	21.1	N	P	13.4	7.3	8.8	9.6	9.2	6.6
23	1.4	0.9	1.4	1.7	4.7	11.9	— 7.6	N	8.4	9.4	8.4	9.0	6.0
24	2.6	2.1	2.5	2.7	7.9	25.3	N	P N	N	N	6.3	6.4	7.4
25	3.0	3.5	3.1	3.8	6.3	9.4	12.1	5.7	9.0	12.2	12.4	10.1	7.4
26	3.6	3.2	3.4	3.6	7.0	17.4	6.1	10.1	12.9	13.3	10.2	10.5	7.7
27	2.9	2.3	2.8	4.0	3.2	5.0	8.9	12.5	10.2	15.2	10.3	16.4	8.1
28	1.7	2.2	N	3.5	2.8	9.4	8.1	6.0	9.1	10.5	10.1	6.5	5.1
29	3.9	4.0	8.8	P N	N	1.9	N	3.6	4.5	7.1	8.1	7.3	5.2
30	3.6	3.4	13.4	1.3	N	P	2.6	5.5	2.2	5.6	—	—	6.3
31	1.6	0.7	1.7	1.4	1.7	1.1	1.5	1.9	1.7	1.9	—	—	2.0
Hourly Means.	2.2	3.5	2.3	2.9	3.9	5.5	6.4	7.1	7.7	8.1	7.0	9.0	5.95

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	4.96	4.57	4.62	4.60	4.56	5,27	6.03	6.51	6.86	6.90	6.98	6.45	—
2	6.76	5.92	5.43	5.28	5.58	5.94	6.63	7.18	7.44	7.13	6.67	6.11	—
3	6.75	6.46	6.37	6.35	6.41	6.92	7.45	7.86	8.21	8.32	7.99	7.63	—
4	7.84	7.15	7.17	6.92	7.28	7.88	8.55	9.13	9.66	9.71	8.99	8.42	—
5	8.20	7.72	7.50	7.17	7.18	7.48	8.08	8.40	8.42	8.21	7.78	7.27	—
6	7.11	6.67	6.35	6.37	6.42	6.93	7.66	7.87	8.20	8.05	7.89	7.47	—
7	7.45	7.35	7.30	7.40	7.56	7.76	8.23	8.78	8.83	8.77	8.82	8.88	—
8	7.95	7.80	7.61	7.46	7.42	8.02	8.17	8.85	8.90	8.41	8.79	8.31	—
9	8.95	8.30	8.00	8.05	8.46	8.98	9.21	9.84	10.22	10.28	10.23	9.75	—
10	10.55	10.29	10.87	10.69	10.34	10.79	9.96	11.46	11.64	11.84	11.55	10.80	—
11	10.61	10.29	10.29	10.46	9.99	10.89	11.53	11.63	12.10	11.90	11.52	10.97	—
12	10.63	10.14	9.89	9.61	9.88	10.15	10.77	11.03	10.96	10.68	10.57	9.90	—
13	9.40	8.96	8.48	8.75	9.35	9.58	9.94	10.11	10.06	9.85	9.62	9.08	—
14	9.12	8.84	8.82	8.68	8.91	9.37	9.64	10.41	10.81	10.55	10.49	9.79	—
15	9.98	10.13	9.78	9.45	9.45	9.80	10.59	11.21	11.73	11.53	11.17	10.53	—
16	10.73	10.23	9.93	9.99	9.98	10.38	11.51	11.95	11.95	11.68	11.28	10.83	—
17	10.70	10.31	9.98	9.94	10.00	10.36	10.62	11.14	11.43	11.35	11.30	10.80	—
18	9.48	9.16	8.76	8.46	8.92	8.93	8.96	9.50	9.59	9.39	8.96	8.33	—
19	8.20	8.00	7.80	7.65	7.95	8.21	8.57	9.07	9.45	9.21	9.01	8.79	—
20	7.93	7.71	7.54	7.57	7.57	8.01	8.48	9.36	9.45	9.59	9.12	8.71	—
21	8.42	8.08	7.72	7.73	7.95	8.07	8.72	9.30	9.50	9.29	8.88	8.49	—
22	9.09	8.50	8.01	8.02	8.33	8.60	8.82	9.46	9.41	9.33	8.81	8.48	—
23	8.14	7.65	7.40	7.46	7.71	8.02	8.51	8.86	9.11	8.87	8.53	7.70	—
24	7.29	6.95	6.86	7.12	7.22	7.59	7.85	8.42	8.51	8 34	7.84	7.24	—
25	7.01	6.82	6.55	6.42	6.85	7.32	7.98	8 61	8.74	8.61	8.35	7.73	—
26	7.85	7.36	7.01	7.14	7.16	7.51	7.87	8.25	8.67	8.69	8.53	7.77	—
27	8.50	8.35	7.87	7.40	7.43	7.46	7.98	8.18	8.41	8.21	7.69	7.34	—
28	7.15	6.65	6.45	6.51	6.41	6.84	7.20	7.47	7.79	7.69	7.34	6.83	—
Hourly Means.	8.46	8.08	7.87	7.81	7.94	8.32	8.77	9.28	9.50	9.37	9.10	8.59	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	5.79	5.34	5.13	5.63	5.66	6.15	6.80	7.70	8.06	8.27	8.14	7.81	6.20
2	5.40	4.68	4.28	4.17	4.63	5.13	6.38	6.81	7.25	7.57	7.55	7.27	6.13
3	6.83	5.93	5.78	5.83	6.39	6.89	7.47	7.75	8.20	8.30	8.31	8.01	7.18
4	7.86	7.48	7.05	6.66	6.83	7.10	7.40	8.36	8.79	8.56	8.57	8.61	8.00
5	6.41	6.16	5.81	5.56	5.81	6.38	7.09	7.89	8.20	8.61	8.34	7.82	7.40
6	6.98	6.57	6.43	5.79	6.08	6.64	7.39	7.91	7.92	8.25	8.28	7.73	7.21
7	7.85	7.20	6.40	6.50	6.55	6.75	7.34	7.82	8.21	8.64	8.30	8.27	7.79
8	7.87	7.46	6.81	6.85	6.95	7.60	7.96	8.40	8.53	9.21	9.32	9.18	8.08
9	9.16	8.51	7.98	7.88	8.29	8.71	9.46	9.70	10.30	10.63	10.65	10.55	9.25
10	9.98	9.45	9.13	8 98	8.90	9.37	9.87	10.28	10.65	10.86	11.13	10.98	10.43
11	10.55	9.86	9.29	8.75	9.08	9.59	10.17	10.64	11.09	11.20	11.13	10.90	10.60
12	9.28	8.51	8.18	8.21	7.97	8.32	9.14	9.64	9.88	10.27	9.94	9.83	9.72
13	8.39	7.53	7.10	7.01	7.05	7.57	8.10	8.88	9.23	9.47	9.69	9.00	8.84
14	9.28	8.89	8.59	8.88	8.77	9.02	9.83	9.90	10.41	10.85	10.86	10.48	9.63
15	9.84	9.24	8.87	8.39	8.83	9.14	9.87	10.74	11.36	11.24	11.45	11.21	10.23
16	10.28	9.64	8.99	8.56	8.94	9.72	10.28	11.06	11.11	11.33	11.44	11.25	10.54
17	9.83	8.82	8.37	7.90	8.05	8.45	9.32	9.95	10.34	10.83	10.51	10.11	10.02
18	7.94	7.23	6.79	6.35	6.56	6.82	7.44	7.77	8.35	8.82	8.83	8.16	8.31
19	8.00	7.03	6.53	6.35	6.55	7.10	7.29	7.87	8.31	8.50	8.62	8.31	8.02
20	8.16	7.49	6.89	6.58	6.63	7.20	7.60	8.17	8.71	8.94	9.01	8.89	8.14
21	7.66	6.99	6.36	6.20	6.67	7.60	8.01	8.71	9.33	9.75	9.83	9.55	8.28
22	7.82	7.02	6.21	5.99	5.73	6.26	7.12	7.73	8.13	8.86	8.71	8.42	8.04
23	6.89	6.24	5.48	4.97	5.11	5.58	6.32	6.87	7.52	7.99	8.05	7.85	7.37
24	6.71	6.07	5.45	5.45	5.32	6.11	6 77	7.47	7.93	8.00	7.81	7.40	7.16
25	6.78	6.42	6.16	5.69	5.53	6.22	7.09	7.44	7.90	8.40	8.49	8.27	7.31
26	7.09	6.58	6.01	6.11	6.81	7.48	7.90	8.63	8.91	8.89	8.87	8.74	7.74
27	6.57	6.06	5.76	5.61	5.87	6.00	6.39	7.11	7.39	7.61	7.59	7.35	7.26
28	5.99	5.18	4.57	4.72	5.22	5.89	6.58	7.12	7.75	8.08	8.20	8.11	6.74
Hourly Means.	7.90	7.27	6.80	6.63	6.81	7.31	7.94	8.51	8.92	9.21	9.20	8.93	8.27

STANDARD THERMOMETER.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	76.4	76.0	75.8	75.4	75.1	74.7	75.0	76.1	77.0	79.2	80.0	81.0	—
2	72.5	72.2	72.2	72.4	72.4	72.4	72.5	73.2	74.5	76.9	79.0	80.6	—
3	76.4	76.0	75.6	75.5	75.4	75.2	75.2	77.4	79.2	78.1	80.0	80.2	—
4	74.6	74.6	74.4	74.4	74.3	74.3	75.0	75.4	76.0	76.0	78.8	78.9	—
5	75.9	75.6	75.0	74.4	75.0	75.0	75.3	77.6	80.3	83.1	85.2	87.0	—
6	75.6	75.4	75.0	74.6	74.6	74.6	76.1	77.1	79.0	80.3	82.0	81.2	—
7	74.1	74.1	74.3	74.1	73.8	73.8	73.9	74.6	76.1	78.7	80.6	75.5	—
8	74.2	73.8	73.6	73.8	73.3	73.3	74.0	75.6	77.8	79.2	76.9	75.5	—
9	74.0	74.0	74.0	73.8	73.5	72.9	73.0	73.5	74.0	74.2	75.6	78.2	—
10	69.2	70.2	71.0	71.0	70.8	71.0	71.0	72.0	74.8	76.8	79.0	81.0	—
11	75.5	75.0	75.0	74.5	74.5	74.0	74.8	75.2	77.1	79.1	79.1	79.6	—
12	75.1	75.7	75.5	75.0	74.0	73.8	74.4	77.2	79.0	81.0	82.5	82.9	—
13	75.8	75.2	74.6	74.8	74.8	74.4	75.2	76.7	79.0	80.0	79.8	80.0	—
14	76 0	75.8	75.3	74.8	74.8	74.7	74.5	76.0	77.9	79.4	80.0	81.0	—
15	73.5	73.3	73 3	73.1	72.8	72.5	73.0	75.0	76.9	78.2	80.0	80.8	—
16	73.7	73.7	73.8	73.8	74.2	74.7	75.2	76.0	77.2	79 0	79.5	80.2	—
17	74.4	73.4	73.2	73.2	73.2	73.2	73.1	74.5	76.5	78.3	73.6	74.6	—
18	75.0	75.0	74.8	74.9	74.3	73.9	73.9	76.0	78.0	80.3	82.2	82.7	—
19	75.0	75.5	74.8	74.5	74.5	74.0	74.2	75.3	77.7	79.0	81.0	79.7	—
20	75.0	74.0	73.2	73.2	74.0	74.0	74.0	75.5	77.5	77.5	79.0	81.0	—
21	74.9	74.7	74.2	74.0	73.7	73.5	74.1	76.1	79.0	81.7	84.0	85.0	—
22	75.8	75.1	75.0	74.8	74.7	74.5	74.2	76.1	78.0	79.1	82.4	83.7	—
23	76.8	76.5	76.2	76.2	75.6	74.4	74.6	77.0	78.8	80.7	81.8	83.0	—
24	76.2	76.1	75.4	75.4	75.4	74.6	76.0	77.9	81.4	83.4	84.7	86.1	—
25	74 8	74.5	74.0	73.7	73.2	73.0	73.8	76.0	79.0	82.0	82.9	83.7	—
26	76.9	76.7	76.7	76.3	75.7	75.5	76.0	78.3	81.0	82.6	84.0	86.0	—
27	75.0	74.8	74.6	74.1	74.1	73.9	74.0	75.3	77.6	80.8	83.6	85.0	—
28	76.3	76.2	75.9	75 5	75.0	75.0	75.4	77.0	80.0	82.3	84.4	84.8	—
Hourly Means.	74.95	74.75	74.51	74.33	74.17	73.96	74.34	75.84	77.87	79.53	80.77	81.39	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	82.2	82.2	81.0	75.2	74.7	74.1	73.8	73.5	73.3	72.7	72.5	72.5	76.23
2	83.2	84.2	84.0	83.0	82.0	81.0	80.0	79.3	78.4	78.4	78.0	77.4	77.49
3	80.6	82.0	79.6	78.0	78.5	76.8	76.2	76.0	76.0	76.0	75.5	75.0	77.27
4	79.9	80.3	80.0	79.8	79.6	79.0	78.0	77.6	77.1	77.0	76.3	75.9	76.97
5	86.4	84 6	83.1	83.6	83.8	82.5	80.8	79.0	77.6	77.1	77.0	76.3	79.63
6	83.0	82.5	80.0	79.5	79.0	78.1	77.6	74.7	74.4	74.4	74.2	74.4	77.39
7	77.0	79.2	79.3	80.0	79.0	79.0	77.8	77.0	76.0	75.5	75.5	75.4	76.43
8	75.6	76.5	78.2	79.0	79.0	76.3	75.2	75.0	74.8	74.4	74.0	74.2	75.55
9	80.9	80.4	80.0	80.0	80 0	73.8	73.5	73.0	73.1	73.3	73.4	73.6	75.24
10	81.2	81.7	81.4	81.0	81.0	80.0	78.5	77.1	77.0	77.0	76.8	76.6	76.13
11	80.9	82.8	82.0	82.7	82.2	81.0	78.4	77.2	77.5	76.5	76.0	75.4	77.75
12	84.2	86.0	85.0	82.0	81.5	81.3	80.0	79.0	78.0	77.5	76.9	76.3	78.91
13	80.5	82.3	84.1	83.0	82.1	81.0	80.1	79.0	78.0	77.5	77.0	76.5	78.39
14	80.0	79.0	79.8	76.2	75.0	75.9	74.7	74.1	74.0	74.0	73.2	73.1	76.22
15	81.7	82.2	81.6	81.0	81.2	80.4	76.5	73.4	74.0	74.0	74.0	74.0	76.52
16	80.2	81.0	81.0	81.4	80.3	79.3	75.4	74.4	74.8	74.6	74.5	74.7	76.78
17	76.0	78.2	80.0	81.0	81.0	80.6	79.0	78.0	76.5	76.0	75.4	75.0	76.46
18	79.0	79.0	78.5	77.4	78.1	78.1	77.0	76.5	76.6	76.3	76 2	75.4	77.05
19	81.2	82.3	82.0	82.0	81.8	80.1	78.8	78.0	77.3	76.1	75.5	75.1	77.73
20	81.6	79.9	80.1	80.5	80.3	79.9	79.0	78.5	77.7	77.2	76.5	75.8	77.29
21	86.7	87.0	87.0	84.0	79.0	78.7	77.8	77.4	76.5	75.9	75.7	75.6	78.59
22	84.4	85.2	86.5	85.0	85.1	84.0	82.6	81 3	80.0	78.1	77.4	76.4	79.56
23	85.1	84.9	84.9	84.9	84.1	82.6	81.7	81.1	80.0	77.5	76.7	76.3	79.64
24	85.1	85.4	84.4	84.8	83.3	82.5	81.6	77.1	76.7	76.5	75.5	75.0	79.60
25	85.0	85.2	84.3	83.6	83.6	82.4	81.6	79.4	78.2	78.0	77.6	77.1	79.03
26	86.2	84.7	84.6	85.0	83.0	78.2	75.6	75.3	75.0	74.7	74.9	75.0	79.08
27	86.0	85.0	84.6	83.5	79.3	78.6	77.7	77.3	77.1	76.5	76.2	76.1	78.36
28	85.6	86.2	86.5	85.5	84.5	82.3	80.6	79.5	79.1	78.4	77.5	77.0	80.02
Hourly Means.	82.12	82.50	82.27	81.52	80.79	79.55	78.20	77.10	76.60	76.11	75.71	75.40	77.68

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	841	848	848	855	863	888	889	873	834	801	796	761	—
2	955	964	964	964	964	964	964	973	956	867	786	703	—
3	882	889	898	905	905	914	930	875	823	885	818	834	—
4	879	879	896	904	921	921	897	872	864	906	831	815	—
5	849	840	871	887	863	863	872	820	745	671	639	591	—
6	832	831	839	838	838	838	890	859	823	804	757	726	—
7	921	921	921	930	938	938	947	930	882	838	768	914	—
8	938	947	947	947	965	973	947	923	884	863	924	948	—
9	982	982	982	991	982	964	964	973	973	965	948	901	—
10	971	963	972	972	982	982	972	973	913	866	839	769	—
11	957	956	947	956	947	947	930	939	883	847	855	855	—
12	863	840	872	897	929	929	939	859	816	755	710	732	—
13	906	930	930	913	904	904	914	882	847	795	795	848	—
14	890	889	898	922	922	922	965	940	901	848	810	776	—
15	947	956	956	965	964	964	955	947	924	885	818	805	—
16	973	973	956	965	947	921	864	890	875	823	802	788	—
17	965	955	973	964	964	964	973	965	924	877	920	922	—
18	897	905	904	879	896	912	921	906	852	818	758	745	—
19	871	864	904	921	913	930	921	905	867	839	769	817	—
20	863	887	920	911	921	930	947	889	844	867	831	762	—
21	904	904	921	921	929	929	913	882	823	750	662	645	—
22	931	956	956	965	965	965	965	940	852	794	731	693	—
23	924	932	940	932	948	913	888	858	846	782	763	746	—
24	915	915	931	923	923	939	881	836	748	733	696	656	—
25	947	956	947	947	955	955	938	932	809	742	766	741	—
26	932	940	932	940	948	948	948	885	798	745	701	642	—
27	956	965	956	947	930	947	947	889	860	768	740	696	—
28	923	923	931	940	939	947	931	858	773	722	675	703	—
Hourly Means.	915	918	925	929	931	933	929	903	855	816	782	769	—

FEBRUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	715	700	710	905	913	930	947	955	946	946	955	955	861
2	712	694	706	745	742	783	833	878	926	877	852	867	860
3	812	758	840	853	862	858	899	898	906	906	872	880	871
4	773	766	817	795	794	808	845	844	859	875	882	849	854
5	643	702	775	741	714	702	753	755	774	795	787	809	769
6	711	752	736	786	801	798	828	913	930	930	921	904	826
7	906	839	823	824	862	822	852	875	906	923	914	914	888
8	948	940	893	885	878	882	947	965	956	965	965	973	933
9	850	811	825	825	848	929	965	964	973	973	973	973	938
10	719	686	684	711	755	787	830	891	907	916	924	932	872
11	805	752	764	745	722	711	761	795	796	841	841	855	850
12	663	624	636	750	776	790	818	847	876	884	875	890	815
13	775	730	616	671	715	761	781	831	860	859	883	882	831
14	879	894	840	923	956	957	973	965	965	956	973	973	914
15	757	751	763	798	813	834	924	946	956	965	965	973	897
16	745	747	739	756	804	840	898	939	947	956	965	965	878
17	915	885	841	798	798	842	839	845	891	915	905	897	906
18	886	909	853	907	908	845	858	874	857	857	849	872	870
19	783	744	750	750	771	811	815	806	828	874	864	832	840
20	742	855	803	767	796	818	831	862	867	891	890	881	857
21	619	597	640	734	909	942	949	932	915	931	940	948	843
22	716	653	644	724	738	755	780	734	752	821	844	891	824
23	704	690	690	697	701	731	791	805	802	819	865	899	819
24	711	712	736	737	725	765	792	916	924	924	931	947	830
25	717	718	728	726	713	808	821	839	884	892	907	932	847
26	708	717	757	724	760	806	923	930	930	947	956	956	853
27	687	665	663	747	808	822	852	867	875	891	906	915	846
28	673	624	577	647	663	744	804	878	863	877	907	916	810
Hourly Means.	760	745	745	774	794	817	854	877	888	900	904	910	857

DIRECTION OF THE WIND.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	W	C	W	C	C	C	C	C	W	WNW	NNW	NNW
2	C	C	C	C	C	C	C	C	C	WSW	W	NNW
3	C	C	C	C	C	C	C	WNW	WNW	W	NW	WSW
4	W	WNW	WNW	WNW	C	WNW	W	W	WNW	WNW	WNW	NNW
5	C	C	C	C	WNW	W	W	C	W	WNW	NW	WNW
6	C	C	C	C	C	WNW	WNW	C	WNW	WNW	W	W
7	NW	W	WNW	C	C	C	C	C	WNW	WNW	NNW	W
8	C	C	C	C	C	C	C	C	WSW	W	WNW	C
9	C	C	C	C	W	C	C	C	WSW	C	C	NW
10	SW	C	C	C	C	C	SW	C	SW	NW	NW	N
11	WNW	C	C	C	C	C	C	NW	WNW	W	WNW	WSW
12	W	W	WSW	C	C	C	WSW	WNW	WNW	NW	NNW	NNW
13	C	C	C	C	C	C	W	W	N	NNW	NW	NNW
14	C	C	C	C	C	C	C	C	NW	NW	NW	NW
15	WNW	W	C	C	C	C	C	C	NW	NNW	NNW	NNW
16	C	C	C	NW	NW	NW	NW	C	NW	NNW	NW	NNW
17	NNE	WNW	WNW	C	C	C	C	NW	NW	NW	W	C
18	C	C	C	C	C	C	C	C	NW	W	WNW	NW
19	WSW	W	C	WSW	W	W	W	W	WNW	WNW	W	NNW
20	C	C	C	C	C	C	W	SW	W	WSW	WSW	WSW
21	C	C	C	C	C	C	C	C	WSW	S	WSW	NW
22	C	C	C	C	C	C	C	C	C	S	SSW	WNW
23	WNW	WSW	C	C	C	C	C	C	WSW	WSW	W	NNW
24	C	C	C	C	C	C	C	C	E	ENE	E	E
25	C	C	C	C	C	C	C	C	SSW	SSW	S	NW
26	C	C	C	C	C	C	C	C	WNW	NNW	NNW	N
27	C	C	SSW	C	C	C	C	C	WSW	WSW	WSW	NNW
28	C	C	C	C	C	C	C	C	SE	SE	ENE	NE

FEBRUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	N	N	NNW	SW	SW	C	C	C	C	C	C	C
2	NNW	NNW	NNW	NNW	NNW	NNW	C	C	C	C	C	C
3	NW	W	WNW	WNW	W	NW	NW	WNW	C	NW	WNW	W
4	NW	NW	WNW	WNW	WNW	NW	NW	WNW	C	C	C	C
5	NNW	WNW	NNW	NNW	WNW	WNW	WNW	WNW	NW	WNW	W	C
6	WNW	WNW	W	NW	NW	WNW	WNW	NW	C	C	NW	WNW
7	W	WNW	WNW	NW	WNW	WNW	C	C	C	C	C	C
8	C	C	WNW	C	NNW	NW	C	NW	C	WSW	C	C
9	NW	N	NW	NNW	NNW	W	C	C	C	C	C	W
10	NW	NW	N	N	NW	NNW	C	C	C	C	C	C
11	NW	NW	NNW	NW	WNW	W	W	W	W	WSW	W	C
12	NNW	NNW	WNW	WSW	WSW	W	C	C	C	C	C	C
13	NNW	NW	WNW	WNW	NW	NW	C	C	C	C	C	C
14	WSW	WSW	WSW	NNW	C	C	NNW	C	C	WNW	NW	C
15	NNW	NNW	NNW	N	N	N	NNE	WNW	C	C	NNE	C
16	N	NNW	N	N	C	N	WNW	C	C	C	N	C
17	C	WNW	NNW	NNW	NW	C	C	C	C	C	C	C
18	WNW	NW	WSW	C	WSW	WSW	C	C	C	C	C	C
19	NW	WNW	WNW	WNW	NW	NW	C	C	C	C	C	C
20	NW	NW	NW	NW	NW	NW	C	C	C	C	NW	C
21	WNW	NNW	NW	SW	C	C	SSE	SSE	C	C	C	C
22	WNW	WSW	NW	NNE	N	N	N	N	NW	C	C	NW
23	NE	NE	NNE	NNE	N	N	C	N	NNE	C	C	C
24	NNE	NNE	N	NE	N	NNW	NW	S	C	C	C	C
25	N	NNE	NNE	N	N	N	N	C	C	C	C	C
26	NNE	NNE	NNE	NNW	N	SW	SW	S	S	C	C	C
27	NNE	N	NNW	NNW	SW	C	C	C	C	C	C	C
28	N	N	NE	NNE	NNW	C	C	C	C	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.8	0 0	0.8	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	4.0	—
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	2.4	—
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	1.6	1.6	1.6	—
4	0.8	0,8	0.8	0.8	0.0	0.8	1.6	1.6	1.6	3.2	6.4	5.6	—
5	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.0	1.6	4.0	4.8	6.4	—
6	0.0	0.0	0.0	0.0	0.0	1.6	0.8	0.0	4.0	6.4	4.8	4.8	—
7	2.4	1.6	0.8	0 0	0.0	0.0	0.0	0.0	0.8	3.2	4.8	4.8	—
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	0.0	—
9	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.8	0.0	0 0	2.4	—
10	3.2	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	3.2	3.2	6.4	—
11	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	1.6	0.8	—
12	0.8	0.8	0.8	0.0	0.0	0.0	1.6	1.6	4.0	8.0	11.3	13.7	—
13	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	5.6	5.6	4.8	5.6	—
14	0.0	0.0	0.0	0.0	0.0	0 0	0.0	0.0	2.4	4.0	7.2	4.8	—
15	0.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	4.0	5.6	13.7	12.1	—
16	0.0	0.0	0.0	3.2	1.6	1.6	0.8	0.0	2.4	4.8	7.2	8.0	—
17	0 8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	4.0	8.9	3.2	0.0	—
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.8	4.8	8.0	—
19	0.8	1.6	0.0	0.8	0.8	1.6	1.6	0.8	3.2	2.4	4.8	4 8	—
20	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	4.0	1.6	3.2	4.8	—
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.6	3.2	4.8	—
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	—
23	0.8	0.8	0.0	0.0	0.0	0.0	0 0	0.0	0.8	0.8	0 8	4.0	—
24	0.0	0.0	0.0	0.0	0.0	0 0	0.0	0.0	2.4	4.8	4.8	4.0	—
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	3.2	—
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	2.4	3.2	—
27	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	3.2	—
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	4.8	4.0	—
Hourly Means.	0.46	0.29	0.17	0.17	0.23	0.23	0.37	0.37	2.06	3.15	4.06	4.66	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	6.4	4 8	3.2	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20
2	5.6	9.7	8.0	4.8	4.0	0.8	0.0	0.0	0 0	0.0	0 0	0.0	1.54
3	3.2	3.2	3.2	0.8	1.6	2.4	0.8	0.8	0.0	0.8	0.8	0.8	1.13
4	3.2	7.2	4.8	4.8	1.6	0.8	1.6	0.8	0.0	0.0	0.0	0.0	2.03
5	10.5	8.0	8.0	6.4	2.4	1.6	1.6	3.2	2.4	1.6	1.6	0.0	2.77
6	6.4	8.0	7.2	4.8	1.6	1.6	2.4	3.2	0.0	0.0	0.8	0.8	2.47
7	1.6	1.6	1.6	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.20
8	0.0	0.0	0.8	0.0	0.8	3.2	0.0	0.8	0.0	0.8	0,0	0.0	0.47
9	6.4	6.4	5.6	3.2	7.2	1.6	0.0	0.0	0.0	0.0	0.0	4.0	1.70
10	4.0	4.0	4.8	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.60
11	3.2	6.4	6.4	4.8	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.0	1.57
12	16.9	14.5	6.4	2.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.52
13	9.7	11.3	11.3	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.81
14	1.6	0.8	0.8	1.6	0.0	0.0	0.8	0.0	0.0	1.6	0.8	0.0	1.10
15	13.7	11.3	5.6	3.2	0.8	1.6	7.2	1.6	0.0	0.0	1.6	0.0	3.52
16	9.7	7.2	4.8	1.6	0.0	1.6	0.8	0.0	0.0	0.0	0.8	0.0	2.34
17	0.0	1.6	2.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.17
18	2.4	1.6	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.10
19	6.4	7.2	4.8	4.8	3.2	0.8	0.0	0 0	0.0	0.0	0.0	0.0	2.10
20	4.8	4.8	6.4	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.8	0.0	1.77
21	7.2	8 0	8.9	3.2	0.0	0.0	1.6	1.6	0.0	0.0	0.0	0.0	1.77
22	0.8	1.6	2.4	7.2	4.0	2.4	0.8	1.6	0.8	0.0	0.0	0.8	1.20
23	7.2	5.6	5.6	4.8	4.8	1.6	0.0	0.8	0.8	0.0	0.0	0.0	1.63
24	4.8	12.1	8.0	7.2	6.4	1.6	3.2	0.8	0.0	0.0	0.0	0.0	2.50
25	4.8	9.7	10.5	8.0	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	1.88
26	8.9	11.3	8.0	4.8	3.2	5.6	0.8	0.8	0.8	0.0	0.0	0.0	2.14
27	8.0	11.3	7.2	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.60
28	6.4	6.4	5.6	7.2	1.6	0 0	0.0	0.0	0.0	0.0	0.0	0.0	1.63
Hourly Means.	5.85	6.63	5.50	4.03	2.23	1.31	0.83	0.60	0.20	0.20	0.29	0.23	1.84

...NSITY OF ILLINOIS LIBR
SEP 1 1921

CLOUDS.

CLEAR = 0. OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY.	1	10	10	10	10	10	10	10	10	10	10	10	10	—
	2	10	10	10	10	10	10	10	10	7	8	9	9	—
	3	7	8	8	9	7	10	10	9	10	10	10	10	—
	4	6	6	7	6	8	10	10	10	10	10	9	10	—
	5	10	9	9	6	8	9	8	7	5	4	4	3	—
	6	10	10	10	7	7	8	10	9	10	9	9	10	—
	7	10	10	10	10	10	10	10	10	10	6	8	10	—
	8	3	8	9	7	9	8	10	10	10	10	10	10	—
	9	10	10	10	10	10	10	10	10	10	10	10	10	—
	10	10	10	10	10	10	10	10	10	10	10	10	9	—
	11	10	10	10	10	7	10	10	10	10	10	10	10	—
	12	7	5	3	3	4	3	2	8	7	6	5	4	—
	13	2	3	6	9	9	9	10	10	10	10	10	10	—
	14	5	7	7	5	7	10	10	8	9	9	10	10	—
	15	10	10	10	10	10	10	10	10	10	10	10	10	—
	16	10	10	10	10	10	10	10	10	9	9	10	10	—
	17	10	10	10	10	10	10	6	9	7	6	10	10	—
	18	8	9	10	9	9	8	10	10	10	8	9	10	—
	19	5	9	10	10	10	10	10	8	7	7	9	10	—
	20	2	0	1	6	9	10	10	10	9	10	10	10	—
	21	10	8	10	8	8	8	2	3	3	4	5	5	—
	22	10	10	10	10	8	10	7	6	5	7	5	9	—
	23	8	6	5	4	2	3	5	4	5	8	7	7	—
	24	3	2	5	7	7	9	7	3	3	4	5	7	—
	25	2	1	0	1	1	3	7	7	4	5	7	6	—
	26	10	8	7	8	7	6	2	3	3	4	5	5	—
	27	10	10	9	6	6	10	10	7	8	6	4	3	—
	28	8	8	6	3	4	8	4	2	1	0	1	2	—
Hourly Means.		7.7	7.8	7.9	7.6	7.8	8.6	8.2	8.0	7.6	7.5	7.9	8.2	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY.	1	9	10	10	10	10	10	10	10	10	10	10	10	10.0
	2	10	8	7	6	6	9	10	10	10	10	10	9	9.1
	3	10	10	10	10	10	10	10	10	10	9	9	8	9.3
	4	9	10	10	10	10	10	10	10	10	10	10	10	9.2
	5	9	10	9	8	10	9	10	10	10	10	10	8	8.1
	6	9	10	10	9	9	9	9	10	10	10	9	9	9.3
	7	10	10	10	10	10	9	9	7	9	9	9	10	9.4
	8	10	10	10	10	10	10	10	10	10	10	10	10	9.3
	9	10	10	10	10	10	10	10	10	10	10	10	10	10.0
	10	9	10	10	9	8	9	7	6	9	10	10	10	9.4
	11	10	10	9	6	9	9	4	3	4	3	6	7	8.2
	12	8	7	10	10	9	8	7	9	9	7	7	7	6.5
	13	10	7	5	8	9	6	5	4	4	1	0	1	6.6
	14	10	10	10	10	10	10	10	10	10	10	10	10	9.0
	15	9	6	7	8	9	10	10	10	10	10	10	10	9.5
	16	10	10	10	9	9	10	10	10	10	10	10	9	9.8
	17	10	9	9	9	9	9	9	7	7	5	7	6	8.5
	18	10	8	10	8	10	6	3	2	0	0	0	0	7.0
	19	10	9	10	10	10	9	6	8	6	5	6	5	8.3
	20	7	9	9	9	8	8	9	7	5	7	7	10	7.6
	21	5	5	6	9	10	10	9	9	10	10	9	9	7.3
	22	9	9	8	7	5	4	7	7	5	5	3	5	7.1
	23	6	5	2	1	0	0	3	3	1	2	2	2	3.8
	24	6	5	6	4	3	5	10	10	6	5	6	6	5.6
	25	5	4	2	2	2	5	7	5	4	4	3	3	3.8
	26	7	5	7	7	9	10	10	10	10	9	9	8	7.0
	27	3	3	4	6	7	8	7	9	9	7	5	7	6.8
	28	4	1	0	0	0	1	0	0	0	0	0	1	2.3
Hourly Means.		8.4	7.9	7.9	7.7	7.9	8.0	7.9	7.7	7.4	7.1	7.0	7.1	7.78

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	—	—	—	—	—	4.9	5.9	2.4	3.4	3.9	3.3	2.8	—
2	5.1	6.5	6.1	10.2	5.9	—	—	—	7.1	4.3	3.7	3.8	—
3	3.8	3.4	3.8	3.1	3.1	5.5	6.3	4.9	3.1	—	—	—	—
4	2.1	1.9	2.7	2.3	2.2	3.2	3.2	2.6	2.6	0.7	3.0	2.3	—
5	3.2	3.0	3.5	3.0	2.5	2.9	4.0	3.2	3.1	2.6	2.6	1.5	—
6	4.0	3.8	3.3	2.8	2.6	2.9	2.8	1.7	2.3	2.3	1.7	1.2	—
7	2.6	2.7	2.3	2.7	2.3	2.6	4.5	3.1	2.5	1.9	2.3	N	—
8	7.8	10.4	10.5	8.0	6.4	11.7	11.5	5.5	4.5	8.0	N	3.4	—
9	1.1	2.2	2.6	0.6	N	N	— 0.3	1.6	2.7	2.1	1.2	1.4	—
10	N	1.5	— 15.0	N	—	—	—	3.0	2.0	1.5	1.1	0.7	—
11	— 0.2	1.5	1.2	1.5	2.1	3.5	4.1	2.5	1.4	1.2	1.2	0.8	—
12	1.7	1.4	1.4	1.6	2.0	3.2	3.2	1.9	1.8	1.8	1.2	0.6	—
13	1.7	2.1	1.8	0.9	1.7	1.7	1.0	0.8	1.1	1.0	1.0	— 0.4	—
14	1.1	1.4	1.2	1.9	0.8	— 9.1	1.1	1.8	0.4	0.8	0.6	0.9	—
15	— 0.2	— 7.0	— 2.9	0.2	0.5	1.0	1.9	1.5	0.8	0.2	0.5	0.4	—
16	0.5	0.9	0.3	0.2	0.4	0.3	0.8	0.7	0.9	0.7	0.7	1.0	—
17	2.6	— 14.0	0.9	— 9.6	0.0	0.2	1.0	1.4	0.4	0.6	1.1	0.7	—
18	0.4	0.3	0.3	0.3	0.3	0.6	0.5	0.4	0.4	0.4	0.6	0.8	—
19	0.5	0.3	0.1	0.4	0.3	0.3	0.2	—	—	—	—	1.3	—
20	—	—	—	—	—	—	—	1.6	1.2	0.7	1.0	0.9	—
21	2.4	2.0	2.0	2.1	2.1	3.6	6.3	1.9	1.5	1.3	0.9	1.4	—
22	3.8	4.3	3.7	3.2	4.4	5.9	4.3	4.9	1.7	1.7	1.3	1.2	—
23	3.1	1.4	1.2	1.0	2.4	2.4	3.9	2.7	1.8	1.6	1.2	0.8	—
24	4.5	4.2	4.8	4.9	2.4	2.1	2.8	—	—	—	—	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—	—
26	—	—	—	—	—	—	—	—	—	—	7.8	6.9	—
27	28.7	24.1	31.2	13.3	16.5	29.7	29.1	17.1	14.9	1.5	9.2	8.8	—
28	30.3	29.3	21.4	19.4	25.7	27.2	32.0	18.3	10.2	8.3	9.6	7.7	—
Hourly Means.	4.8	3.7	3.7	3.2	3.9	4.8	5.7	3.7	3.0	2.1	2.5	2.1	—

FEBRUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	2.7	2.9	3.7	— 5.9	— 3.8	— 3.9	— 3.5	— 12.0	0.9	4.2	6.6	5.6	1.3
2	3.8	3.6	3.1	3.1	2.8	6.4	7.2	5.5	3.4	4.9	3.5	5.4	5.0
3	4.4	2.2	3.7	— 2.8	1.5	12.4	5.7	2.6	4.5	4.4	2.7	2.1	3.8
4	2.6	2.1	1.9	2.1	2.8	4.6	6.5	5.5	5.6	4.1	2.6	3.3	3.0
5	0.5	— 0.8	2.5	1.7	2.7	11.1	3.3	3.5	2.4	3.1	3.3	3.9	3.0
6	0.4	0.3	0.8	— 0.4	1.6	3.3	4.4	— 8.5	3.5	6.5	4.2	2.9	2.1
7	2.9	1.0	1.7	1.9	— 3.9	2.8	4.2	4.9	6.6	7.5	6.9	5.7	3.1
8	4.1	2.8	1.3	1.4	2.0	N	— 1.6	5.2	1.4	— 3.5	— 4.6	2.1	4.5
9	0.3	— 0.7	0.4	0.5	5.9	P	— 4.4	1.2	2.0	2.7	3.7	5.0	1.5
10	1.4	1.6	1.4	1.1	1.7	2.1	4.1	4.3	2.8	5.7	4.1	2.5	1.5
11	0.8	0.9	0.7	0.8	1.5	2.4	2.9	4.1	2.5	2.2	1.9	1.9	1.8
12	0.0	0.0	0.1	— 8.1	1.3	1.5	2.5	2.8	2.7	1.9	1.4	1.6	1.2
13	0.7	0.7	— 1.1	1.2	2.2	2.7	3.3	2.8	2.6	2.3	2.1	1.4	1.5
14	— 16.8	0.1	0.2	N	— 4.2	1.8	N	— 2.5	1.2	— 16.8	— 17.3	— 5.9	— 2.6
15	2.1	0.6	0.6	1.1	2.5	5.2	N	N	N	— 1.6	— 4.2	— 3.5	0.0
16	0.7	0.5	0.5	0.5	0.9	1.7	— 6.3	0.5	1.0	1.8	1.9	1.1	0.5
17	0.3	0.3	0.2	0.3	0.4	0.7	0.4	0.7	0.9	1.0	0.7	0.6	— 0.3
18	— 1.4	0.0	— 0.3	0.1	0.3	0.3	0.6	0.7	0.6	0.5	0.4	0.6	0.3
19	0.7	0.2	0.1	1.4	1.4	2.5	4.7	—	—	—	—	—	1.0
20	0.8	— 1.9	1.2	1.0	2.1	3.3	4.8	5.7	5.3	3.6	3.2	2.9	2.2
21	1.1	1.1	1.9	— 12.2	6.5	N	— 2.8	3.0	4.1	4.7	4.8	4.7	1.9
22	0.8	1.0	0.6	0.4	0.8	1.7	2.4	3.8	4.7	9.1	7.9	4.9	3.3
23	0.7	1.1	1.4	1.2	2.1	2.4	3.0	5.4	2.3	4.8	5.5	7.9	2.6
24	—	—	—	—	—	—	—	—	—	—	—	—	3.7
25	—	—	—	—	—	—	—	—	—	—	—	—	—
26	6.7	5.9	4.2	2.1	P	PN	PN	P	6.6	30.8	34.4	34.4	14.0
27	9.5	9.6	N	P	P	N	16.6	13.7	18.3	32.2	29.9	31.1	19.3
28	7.9	9.2	12.1	3,8	2.9	17.5	26.8	33.2	32.4	31.0	26.8	25.9	19.5
Hourly Means.	1.5	1.7	1.7	— 0.2	1.4	3.9	3.7	3.7	4.9	5.9	5.3	5.9	3.44

BAROMETRIC PRESSURE.

BAROMETER AT 0°C, = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH.	1	7.81	7.42	7.20	7.32	7.45	7.88	8.50	9.08	9.38	9.20	8.73	8.47	—
	2	8.66	8.32	8.25	8.28	8.66	8.87	9.58	9.86	10.09	10.10	9.83	9.17	—
	3	9.59	9.09	8.61	8.79	8.92	9.12	9.78	9.89	10.39	10.07	9.81	9.13	—
	4	9.11	8.52	8.09	8.37	8.65	8.86	9.23	10.04	9.88	9.80	9.52	8.74	—
	5	8.15	7.86	7.53	7.34	7.21	7.62	7.87	8.76	8.85	8.07	8.02	8.12	—
	6	7.20	6.92	6.83	7.03	7.00	7.30	7.88	8.50	8.88	8.76	8.32	8.01	—
	7	8.22	7.97	7.52	7.23	7.60	8.01	8.43	9 30	9.28	9.55	9.19	8.47	—
	8	8.71	8 38	8.24	8.04	8.69	8.94	9.23	9.70	10.05	10.34	10.15	9.68	—
	9	9.13	9.00	9.11	9.31	9.31	9.54	9.52	9.89	9 69	9.67	9.86	9.55	—
	10	9.68	9.43	9.11	9.16	9.28	9.45	9.79	10.43	10.76	10.37	10.08	9.43	—
	11	9.84	9.50	9.07	9.07	9.17	9.66	9.81	10.29	10.36	10.29	9.78	9.16	—
	12	9.01	8.76	8.62	8.62	8.99	9.38	9.86	10.08	10.37	9.97	9.76	9.22	—
	13	8.75	8.46	8.65	8.57	8.91	8.93	9.13	9.44	9.83	9.75	9.33	8.80	—
	14	8.93	8.61	8.43	8.43	8.45	8.56	8.99	9.37	9.46	9.10	8.67	7.93	—
	15	8.61	8.12	8.09	7.96	8.37	8.43	8.71	9.02	9.21	8.95	8.65	8.44	—
	16	8.60	7.81	7.53	7.30	7.62	7.78	8.15	8.50	8 87	8.63	8.13	7.60	—
	17	7.74	7.16	6.82	6.59	6.80	7.36	7.91	8.62	8.74	8.90	8.32	7.52	—
	18	7.63	7.00	6.96	6.92	7.03	7.30	7 91	8.60	9.03	9.01	8.68	7.94	—
	19	7.70	7.20	6.91	6.82	7.35	7.66	7.74	8.03	8.26	8.21	7.73	7.31	—
	20	8.11	7.47	7.03	6.88	6.80	7.50	7 92	8.55	8.89	8.71	8.14	7.63	—
	21	7.27	7.29	7.15	7.20	7.42	7.93	8.15	8.85	9.18	8.82	8.30	7.86	—
	22	7.85	7.32	6.88	6.70	6.87	7.02	7.70	8.52	9.02	9.31	8.72	8.19	—
	23	8.73	8.13	7.73	7.37	7.30	7.93	8.37	8.95	9.43	9.55	9.24	8.99	—
	24	8.82	8.55	8.58	8.45	8.61	8.76	9.18	9.50	9.85	9.92	9.49	8.75	—
	25	9.02	8.59	8.20	8.05	8.12	8.54	9.06	9.58	9.68	9.38	8.85	8.09	—
	26	8.56	8.44	8.05	7.92	8.19	8.31	8.78	9.40	9.65	9.72	9.17	8.35	—
	27	8.75	8.17	8.00	8.11	8.13	8.42	8.83	9.15	9.00	8.42	7.66	7.01	—
	28	8.56	7.70	7.44	6.86	7.99	7.92	8.53	9.09	9.29	9.05	8.70	8.49	—
	29	8.57	7.92	7.43	7.45	7.52	7.95	8.30	8.53	8.97	9.14	8.74	8.03	—
	30	8.62	8.03	7.88	7.86	7.63	7.91	8.22	8.83	9.00	8.92	8.49	7.80	—
	31	7.74	7.41	7.14	6.87	7.25	7.81	8.13	8.79	8.86	8.84	8.10	7.73	—
Hourly Means.		8.51	8.08	7.84	7.77	7.98	8.28	8.68	9.20	9.43	9.31	8.91	8.37	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MARCH.	1	7.74	6.94	6 42	6.59	7.41	7 53	8.13	8.64	8.87	9.05	9.11	9.05	8.07
	2	8.22	7.59	7.09	7.23	7.51	8.16	9.03	9.56	9.87	10.17	10.47	10.03	8.94
	3	8.76	8.17	8.12	7.88	8.29	8.84	9.39	9.92	10.23	10.14	9.95	9.53	9.27
	4	8.44	7.87	7.31	6.70	6.81	7.31	8.15	8.71	8.90	9.21	9.34	9.01	8.61
	5	7.33	6.58	5.77	5.83	6.06	6.76	7.16	7.72	7.80	8.06	8.07	7.65	7.51
	6	7.19	6.64	6.11	5.75	6.11	6.88	7.40	7 90	8.34	8.52	8.67	8.42	7.52
	7	8.16	7.60	6.95	6.71	6.96	7.61	8.34	9.02	10.00	10.49	10.26	9.73	8.44
	8	8.68	8.22	7.45	6.87	6.97	7.69	8.06	8.79	9.21	9.96	10.21	9.91	8.84
	9	8.84	8.42	7.84	7.58	7.63	8.46	8.99	9.77	9.99	10.25	10.63	10.40	9.27
	10	8.65	8.04	7.43	7.21	7.87	8.75	9.57	9.68	9.75	10.09	10.26	9.88	9.34
	11	8.52	7.87	7.22	6.61	7.31	7.72	8.17	8 53	9.22	9.68	9.57	9.39	8.99
	12	8.68	7.93	7.42	6.73	6.86	7.43	8.24	9.38	9.76	9.69	9.44	9.24	8.89
	13	8.03	7.41	6.98	6.53	7.56	8.73	8.88	8.75	9.06	9.57	9.50	9.11	8.69
	14	7.55	6.91	6.41	6.42	6.44	7.13	7.80	8.25	8.76	9.06	9.29	9.14	8.25
	15	7.10	6.55	6.45	6.24	6.28	6.73	7.43	8.16	8 51	9.00	8.81	8.77	8.02
	16	6.68	6.22	5.49	5.39	6.13	6.78	7.27	7.68	7.99	8.15	8.21	7.84	7.51
	17	6.76	6.62	6.44	6.70	6.37	6.80	7.14	7.81	8.57	8.84	8.90	8.46	7.58
	18	7.04	6 47	6 07	5.79	6.18	7 60	8.14	8.59	8.52	9.04	8.75	8.27	7.69
	19	6.65	6.06	5.62	5.61	6.86	7.09	7.29	7.95	8.61	8.94	8.86	8.47	7.46
	20	6.47	5.86	5.63	5.43	5.53	6.07	6.62	6.94	7.49	7.50	7.62	7.61	7.18
	21	6.64	5.90	5.71	5.39	5.77	6.30	7 23	8.03	8.00	7.90	7.81	7.91	7 42
	22	7.39	6.82	7.19	6.71	6.86	7.64	8.30	8.60	9.11	9.84	9.74	9.50	7.99
	23	8.13	7.38	7.17	6.88	7.27	7.69	8.39	8.76	8.95	9.27	9.43	9.16	8.34
	24	7.96	7.03	6.51	6.43	6.44	7.09	7.60	8.19	8.79	9.18	9.64	9.38	8.45
	25	7.49	6.88	6.54	6.22	6.51	6.73	7.78	8.55	9 23	9.40	9.22	8.91	8.28
	26	7.88	7.38	6 87	6.76	7.04	7.50	8.13	8.73	9.06	9.48	9.48	8.92	8.41
	27	6.32	6.02	5.92	5.98	5.96	6.59	7.46	7.77	8.33	8.90	8.96	8.99	7.79
	28	8 04	7.19	7.56	7.20	7.30	7.77	8.07	8.70	8.56	8.32	8.47	8.67	8.14
	29	7.62	7.15	7.25	7.32	7.69	8.34	8.80	9.04	9.34	9.68	9.84	9.51	8.34
	30	6.98	6.17	5.56	5.31	5.87	6.43	6.79	7.40	8.27	8.39	8.25	7.89	7.60
	31	6.71	6.14	6.03	6.03	5.74	6.18	6.57	7.12	7.63	8.16	8.10	7.75	7.37
Hourly Means.		7.63	7.03	6.66	6.45	6.75	7.37	7.95	8.47	8.86	9.16	9.19	8.92	8.20

STANDARD THERMOMETER.

MARCH. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	76.4	76.4	75.8	75.0	74.8	74.2	74.9	76.8	79.6	81.8	84.2	85.8	—
2	75.1	74.9	74.3	74.0	73.6	73.0	73.4	75.3	79.0	82.5	84.5	86.0	—
3	76.1	75.6	75.4	75.0	74.3	74.0	74.6	77.2	80.0	83.0	84.0	85.0	—
4	75.6	75.1	75.0	74.4	74.2	74.0	74.2	76.1	78.0	80.0	81.9	80.0	—
5	72.4	72.4	72.0	71.9	72.1	72.7	72.5	73.9	76.9	77.2	79.0	79.8	—
6	74.5	74.1	74.5	74.0	73.5	73.4	73.7	75.5	77.4	79.0	77.3	78.1	—
7	74.6	75.0	74.7	74.1	73.5	73.4	74.0	76.4	79.0	78.4	79.4	80.5	—
8	73.5	73.4	73.5	73.5	73.5	73.6	74.0	75.1	76.7	76.8	75.1	74.9	—
9	76.0	76.0	73.0	73.0	73.6	74.0	73.5	73.1	73.5	75.0	78.1	80.0	—
10	75.2	75.0	75.0	74.7	74.1	73.7	74.1	76.3	79.2	82.0	83.0	84.0	—
11	74.8	75.0	75.0	74.8	74.6	74.0	74.9	77.2	79.8	82.2	83.7	85.3	—
12	76.6	76.4	76.3	76.2	76.0	75.2	75.5	78.1	80.8	83.0	85.0	86.0	—
13	75.2	75.0	74.5	74.0	73.6	73.5	74.3	75.7	78.0	81.2	84.0	85.2	—
14	74.1	73.9	73.4	73.2	73.2	73.0	73.2	76.0	79.6	80.6	82.0	85.2	—
15	75.5	75.0	74.8	74.5	74.2	74.0	74.7	77.4	80.2	82.5	84.3	83.8	—
16	74.9	74.7	74.3	74.0	73.9	73.5	74.4	78.0	81.0	83.2	84.9	85.5	—
17	76.0	75.5	75.1	75.0	74.8	74.6	75.1	78.3	81.0	83.5	84.6	83.8	—
18	74.0	73.6	73.3	73.1	72.8	72.6	73.0	75.0	78.1	81.0	82.0	82.5	—
19	74.0	74.0	73.7	73.1	72.9	72.2	72.6	74.9	78.0	81.0	83.5	84.0	—
20	74.6	74.8	74.7	74.2	73.9	73.7	74.0	76.0	79.0	80.6	81.8	82.0	—
21	77.0	76.7	73.5	73.3	73.1	73.0	73.2	73.6	74.9	77.2	79.5	80.9	—
22	74.9	75.0	74.5	74.3	74.2	74.0	74.2	75.5	77.5	79.5	81.0	82.0	—
23	75.2	75.0	74.7	73.9	73.2	73.0	74.1	76.0	77.2	78.1	79.0	79.2	—
24	76.3	76.0	75.7	75.1	75.1	74.9	74.9	75.9	78.5	80.5	82.0	84.7	—
25	76.5	76.5	76.5	76.0	75.4	75.0	75.2	77.0	79.7	82.3	84.2	86.0	—
26	76.5	76.5	75.7	75.2	75.0	74.5	74.9	76.1	78.8	81.0	82.9	82.5	—
27	75.6	75.3	75.0	74.7	75.0	75.3	76.0	77.0	80.0	81.8	85.0	85.9	—
28	77.2	76.3	75.7	75.2	74.9	74.5	75.3	78.0	80.2	81.1	83.0	83.3	—
29	75.0	74.8	74.6	74.3	74.0	73.8	74.0	75.7	78.6	80.0	81.5	83.3	—
30	73.9	73.9	73.4	72.9	72.7	72.5	73.0	74.4	76.7	80.9	83.8	86.5	—
31	77.0	76.6	75.7	75.2	74.5	74.3	75.1	78.5	80.7	83.0	85.0	84.1	—
Hourly Means.	75.30	75.11	74.62	74.25	74.01	73.78	74.21	76.13	78.63	80.64	82.23	83.09	—

MARCH. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	86.0	86.0	84.8	83.0	81.6	79.4	78.0	77.5	77.1	76.6	76.4	75.3	79.06
2	85.6	86.0	84.9	83.9	83.5	83.0	80.6	79.0	78.1	77.7	77.2	77.0	79.25
3	82.4	81.4	80.0	78.9	78.0	77.9	77.5	77.0	77.0	76.6	76.1	75.8	78.03
4	77.2	76.5	77.1	78.2	78.9	78.3	77.4	77.0	76.7	76.4	73.0	72.6	76.58
5	81.5	81.9	83.0	79.0	76.9	77.5	77.8	77.3	76.1	76.0	75.6	75.3	76.28
6	78.9	80.1	81.2	80.9	80.2	79.7	79.2	77.6	76.1	75.5	74.7	74.5	76.82
7	76.0	77.0	78.0	79.0	78.7	78.4	77.0	75.0	74.7	74.0	74.2	74.0	76.21
8	76.1	78.0	79.0	78.9	78.8	78.2	77.0	76.4	76.1	76.1	76.2	76.0	75.85
9	81.0	83.0	82.6	82.1	81.1	79.8	78.0	77.4	77.0	76.7	75.9	75.4	77.03
10	84.6	85.5	85.2	84.9	84.9	79.0	76.9	76.0	75.3	75.0	75.0	75.0	78.48
11	84.8	85.4	84.8	84.3	83.1	82.1	80.0	78.6	77.5	76.6	76.2	76.1	79.20
12	85.2	86.1	85.3	84.5	83.6	82.7	81.5	80.5	79.8	79.0	77.0	76.0	80.26
13	86.5	86.2	85.6	84.9	84.0	78.8	77.0	76.8	76.0	75.4	74.8	74.4	78.53
14	85.5	85.5	85.0	83.9	83.0	81.9	80.4	78.5	77.5	76.7	76.1	75.9	78.64
15	83.0	83.3	82.1	80.0	79.6	78.5	78.0	77.0	76.4	76.0	75.5	75.2	78.15
16	86.8	85.1	83.4	83.4	83.0	82.3	79.2	78.5	77.8	76.8	76.2	75.7	79.19
17	83.6	81.8	80.8	76.7	75.6	76.0	75.7	75.4	75.3	75.1	74.9	74.6	77.62
18	84.0	84.3	85.0	83.8	82.8	76.0	75.1	75.3	75.0	74.8	74.6	74.2	77.33
19	85.0	84.6	85.6	84.1	81.4	79.5	78.0	77.0	76.4	76.0	76.0	74.8	78.01
20	84.2	84.6	82.5	83.0	82.6	81.5	80.1	79.0	78.5	78.0	77.7	77.2	78.68
21	83.2	83.8	83.8	83.4	82.0	80.4	79.5	78.6	77.3	76.3	75.5	75.2	77.70
22	82.6	82.3	75.1	75.0	75.7	75.7	75.5	75.5	75.4	75.7	75.7	75.8	76.52
23	81.8	84.0	84.3	84.0	80.0	80.1	79.2	78.9	78.5	77.8	77.0	76.6	77.95
24	86.0	87.0	86.5	83.1	82.9	82.1	81.0	80.0	79.0	78.0	77.3	76.9	79.56
25	87.0	85.6	84.1	84.0	81.0	79.7	79.5	79.2	78.5	78.0	78.0	77.0	79.66
26	81.0	82.5	83.3	83.1	82.6	81.0	79.7	79.0	78.2	77.2	76.5	76.0	78.74
27	87.2	86.4	85.6	85.9	84.2	83.3	81.7	80.7	80.1	79.2	78.3	78.0	80.30
28	83.2	83.8	77.4	76.3	75.5	74.8	75.0	74.5	74.7	74.7	74.9	75.0	77.27
29	85.0	84.2	79.3	79.3	78.0	77.5	76.9	76.2	75.8	75.2	74.8	74.2	77.33
30	87.6	87.5	88.0	87.5	85.9	84.0	82.6	81.5	80.8	79.5	78.1	78.0	79.82
31	86.5	85.7	85.0	84.5	83.5	81.7	80.0	78.9	78.3	77.6	77.2	76.2	79.78
Hourly Means.	83.52	83.71	82.85	82.05	81.05	79.70	78.55	77.74	77.13	76.59	76.02	75.61	78.19

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

MARCH.	Mean Batavia Time. 1 A. M	2	3	4	5	6	7	8	9	10	11	12	—
1	932	923	923	947	939	921	922	883	802	764	702	648	—
2	930	914	930	921	938	911	911	872	779	737	676	656	—
3	898	914	922	930	947	938	930	852	796	745	741	684	—
4	957	974	956	965	965	965	965	931	869	796	736	841	—
5	946	946	955	955	973	973	937	895	858	851	823	786	—
6	965	973	965	938	956	956	965	948	933	909	958	942	—
7	939	939	921	921	946	946	947	882	823	853	848	827	—
8	973	973	965	965	965	946	973	957	932	957	947	965	—
9	966	966	937	964	982	973	982	982	973	939	877	773	—
10	957	956	956	956	956	956	947	890	855	771	732	735	—
11	965	965	965	965	965	973	956	851	802	772	734	711	—
12	948	940	932	940	940	947	948	877	790	690	691	649	—
13	897	904	921	938	946	946	921	881	860	784	721	698	—
14	947	947	955	964	955	946	965	856	780	767	771	608	—
15	914	922	930	939	947	956	947	883	759	710	662	748	—
16	956	956	965	965	947	956	930	845	790	705	665	660	—
17	915	923	935	956	956	956	947	862	783	740	696	748	—
18	956	956	969	964	964	964	937	904	807	755	757	730	—
19	956	965	965	955	955	955	964	897	868	798	693	688	—
20	947	947	956	973	965	965	956	906	847	789	777	778	—
21	941	932	956	965	964	964	965	973	956	892	848	798	—
22	930	939	956	965	956	956	956	915	876	824	769	771	—
23	957	966	965	965	973	964	912	890	844	861	854	839	—
24	923	931	931	947	947	947	956	931	877	789	758	665	—
25	932	940	948	948	957	956	966	883	816	750	687	641	—
26	899	899	915	939	947	921	913	856	831	783	717	751	—
27	881	864	871	879	879	855	816	834	736	721	645	610	—
28	924	940	948	957	956	956	939	892	841	761	739	767	—
29	956	965	965	965	965	965	965	915	823	803	741	712	—
30	887	903	911	920	893	910	911	896	866	761	653	588	—
31	858	857	898	914	913	913	897	822	761	732	659	728	—
Hourly Means.	934	937	942	948	950	947	940	892	837	791	751	734	—

MARCH.	Mean Batavia Time. 1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	649	662	724	774	770	794	829	860	867	882	890	922	830
2	647	694	709	706	733	788	804	846	868	875	883	874	817
3	779	821	841	893	917	917	941	949	941	948	948	957	881
4	925	948	949	926	885	917	941	958	957	966	955	955	925
5	749	742	753	909	916	949	941	958	957	940	940	947	900
6	926	849	798	812	825	863	839	828	898	914	922	930	909
7	948	924	908	885	909	942	907	947	947	965	965	965	917
8	957	917	870	870	894	918	941	957	966	966	974	974	947
9	711	636	675	721	755	824	892	916	924	940	957	957	884
10	737	705	691	684	658	801	916	931	939	947	947	956	857
11	737	691	696	688	732	800	856	854	900	899	899	932	846
12	698	675	685	708	740	773	813	856	879	909	874	880	824
13	652	638	635	665	694	777	818	866	905	897	930	939	826
14	634	639	633	713	773	828	872	837	859	891	906	906	831
15	760	747	786	796	795	854	876	907	940	923	931	939	857
16	632	717	705	747	724	772	832	862	892	916	923	906	832
17	734	814	857	858	923	923	931	939	947	939	947	947	883
18	715	716	697	734	780	881	939	939	947	947	947	956	869
19	691	709	692	727	805	839	884	900	906	915	915	930	857
20	729	696	759	760	745	777	856	902	908	941	941	941	865
21	739	734	665	691	742	834	879	862	875	882	905	922	870
22	794	744	939	956	948	957	966	957	974	957	966	966	914
23	778	742	750	694	840	833	831	862	853	867	900	916	869
24	637	634	671	817	831	866	888	903	909	925	925	924	856
25	627	686	715	706	783	817	824	832	869	901	892	907	833
26	704	709	704	690	695	739	809	823	791	812	850	865	815
27	616	702	726	700	715	775	821	849	856	886	917	908	794
28	760	741	780	865	905	913	922	947	956	956	956	956	887
29	670	715	855	847	844	883	906	890	848	872	879	887	868
30	570	575	589	581	568	629	709	733	745	771	820	820	759
31	638	673	651	675	677	706	736	770	821	820	804	833	782
Hourly Means.	727	729	745	768	791	835	868	885	898	909	916	923	858

DIRECTION OF THE WIND.

MARCH. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	C	C	C	C	WNW	W	W	SW	NE
2	C	C	C	C	C	C	C	C	WSW	WSW	WSW	WSW
3	C	C	C	C	C	C	W	C	WNW	WNW	W	NW
4	C	C	C	C	C	C	C	NW	NW	NW	WNW	N
5	C	C	C	C	W	C	WNW	C	WNW	WSW	NNW	NW
6	C	C	C	WNW	C	C	C	WNW	NW	NNW	NNW	NW
7	C	WNW	W	C	C	C	C	W	NW	NE	NW	NNW
8	C	C	C	C	C	WSW	WSW	S	SE	SE	C	C
9	C	S	NNE	C	C	C	NNE	SE	SE	SSE	ESE	ESE
10	C	C	C	C	C	C	C	C	NNW	NNW	N	N
11	C	C	C	C	C	C	ESE	ESE	E	ESE	E	ENE
12	C	C	C	C	C	C	C	C	NNW	E	E	E
13	C	C	C	C	C	SE	SE	C	SE	SE	SSW	NE
14	C	C	C	C	C	C	C	C	SE	ESE	ESE	NE
15	C	C	C	C	C	C	C	C	NNE	NNE	W	NNE
16	C	C	C	C	C	C	C	SW	E	E	E	ENE
17	C	C	C	C	C	SW	SW	C	SW	E	E	NNE
18	C	C	C	C	C	C	S	S	S	WSW	WSW	WSW
19	C	C	C	C	C	C	C	C	S	SW	SW	SE
20	C	C	C	N	C	C	C	C	N	NNW	NNW	NNE
21	NNE	NNE	C	NW	C	C	C	C	C	NW	NW	NW
22	C	C	C	C	SW	C	WSW	C	W	WNW	NW	NW
23	C	SW	W	W	C	C	W	WNW	WNW	W	WSW	WSW
24	C	C	C	C	C	C	C	C	WSW	WSW	S	WSW
25	SSW	C	C	C	C	C	C	C	WNW	NW	NNW	WSW
26	C	C	C	C	C	C	C	C	W	W	W	W
27	C	C	WNW	C	W	W	WSW	WNW	W	W	SSW	SSW
28	ENE	ENE	ENE	C	C	C	C	ENE	ENE	NNE	N	NNE
29	C	C	C	C	C	C	C	WSW	WNW	W	W	WSW
30	C	SW	C	C	C	SW	C	C	SW	W	W	W
31	C	C	C	C	C	C	W	WSW	WNW	W	SW	NW

MARCH. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NNE	NE	NE	NE	NW	NW	C	C	C	C	C	C
2	SW	NNE	N	N	NNW	C	C	C	C	C	C	C
3	N	NW	WNW	C	C	C	C	C	C	C	C	C
4	NNW	C	NNW	NNW	NNW	C	C	C	C	NNW	W	W
5	WNW	NW	NNW	N	N	C	C	NNW	C	C	C	C
6	NW	NW	NW	WNW	C	WNW	WSW	C	C	C	C	C
7	N	N	N	N	C	C	NNW	C	C	C	C	C
8	SE	S	S	C	C	C	C	C	C	C	C	C
9	NNE	NE	NNE	NNE	N	C	C	C	C	C	C	C
10	N	NNE	NNW	NNW	NNW	SSE	E	C	C	C	C	C
11	N	NE	NNE	NNE	N	C	C	C	C	C	C	C
12	NNE	NE	NE	NNE	NNE	NE	NE	NE	C	ESE	C	ESE
13	NE	NE	NNE	N	N	SSW	S	S	C	C	C	C
14	N	N	N	NNE	NNE	C	N	N	C	C	C	C
15	NNE	NNW	NW	WSW	WSW	C	C	C	C	C	C	C
16	ENE	NE	NE	N	N	N	SW	SW	C	SW	SW	C
17	NE	ENE	NNE	S	S	C	C	C	C	C	C	C
18	N	N	N	NNW	NNW	S	C	C	C	C	C	C
19	NE	NNE	NNE	NNE	WSW	WSW	C	C	C	C	NE	NE
20	NNE	NNE	NE	NNE	NNE	NNE	C	C	C	C	C	NNE
21	NNW	NW	NNW	N	NW	C	C	NW	SW	SW	SW	C
22	NNW	NW	SW	C	C	C	C	C	C	C	C	C
23	WNW	WNW	WSW	WSW	SW	SW	W	C	C	C	C	C
24	WNW	NNW	NW	SW	C	W	C	W	SSW	SSW	SSW	C
25	NNW	NNE	NNW	NW	W	W	W	WSW	SW	C	SW	C
26	WNW	WNW	WNW	W	W	WNW	C	C	WNW	C	C	C
27	NNW	NNW	NNW	NW	NNW	NNW	C	C	C	C	C	NNW
28	NNE	N	SSW	SW	SW	SW	SW	SW	C	C	C	C
29	WNW	W	SSW	SW	SW	C	C	SW	C	C	SW	C
30	WNW	WNW	WNW	WNW	W	W	WSW	WSW	C	WSW	W	C
31	WNW	WNW	W	W	WNW	W	W	WNW	W	W	W	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.4	8.0	—
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	1.6	—
3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	3.2	4.8	7.2	—
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	4.8	8.9	—
5	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.0	1.6	1.6	4.8	8.9	—
6	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.8	1 6	0.8	0.8	0.8	—
7	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.8	3.2	1.6	2.4	7.2	—
8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	2.4	1.6	0.8	0.0	0 0	—
9	0.0	1.6	4.8	0.0	0.0	0.0	2.4	4.0	2.4	1.6	2.4	2.4	—
10	0.0	0.0	0 0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	5.6	—
11	0.0	0.0	0.0	0.0	0.0	0.0	0 8	1.6	2.4	6.4	6.4	8.0	—
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.6	6.4	9.7	—
13	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.8	0.8	1.6	3.2	—
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	2.4	0.8	3.2	—
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	6.4	—
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.0	4.8	6.4	7.2	—
17	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.0	1.6	4.8	8.0	9.7	—
18	0.0	0.0	0.0	0.0	0.0	0.0	0 8	0.8	0.8	1.6	0.8	1.6	—
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.6	2.4	10.5	—
20	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8	2.4	1.6	5.6	—
21	0.8	3.2	0.0	0.8	0.0	0.0	0 0	0.0	0.0	1.6	3.2	6.4	—
22	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.0	1.6	4.0	8.0	8.0	—
23	0.0	0.8	0.8	0.8	0.0	0.0	0.8	1.6	1.6	0.8	0.8	1.6	—
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	1.6	2.4	—
25	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	4.8	—
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.0	4.8	4.8	—
27	0.0	0.0	0.8	0.0	0.8	1.6	1.6	0.8	1.6	3.2	5.6	3.2	—
28	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.8	2.4	1.6	4.0	6.4	—
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.8	5.6	5.6	5.6	—
30	0 0	0.8	0.0	0.0	0.0	0.8	0.0	0.0	1.6	5.6	7.2	8.9	—
31	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	3.2	4.8	5.6	8.0	—
Hourly Means.	0.10	0.28	0.26	0.13	0.08	0.15	0.41	0.57	1.81	2.68	3.64	5.67	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.0	7.2	7.2	4.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.80
2	1.6	9.7	8.0	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.44
3	8.0	3.2	0.8	0.0	0.0	0.0	0.0	0 0	0.0	0.0	0.0	0.0	1.23
4	4.8	0.0	0.8	2.4	1.6	0.0	0.0	0.0	0.0	1.6	0.8	0.8	1.30
5	6.4	4.8	3.2	1.6	1.6	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.54
6	0.8	1.6	1.6	1.6	0.0	0.8	1.6	0.0	0.0	0 0	0.0	0.0	0.60
7	3.2	1.6	1.6	0.8	0.0	0 0	3.2	0.0	0.0	0.0	0.0	0.0	1.13
8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37
9	4.8	5.6	6.4	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.90
10	8.0	8.0	9.7	4.8	4.8	4.0	3.2	0.0	0.0	0.0	0.0	0.0	2.14
11	9.7	9.7	10.5	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.78
12	9.7	11.3	12.1	8.9	9.7	7.2	0.8	0.8	0.0	0.8	0.0	0.8	3.56
13	8.9	9.7	8.0	5.6	8.0	3.2	0.8	0.8	0.0	0.0	0.0	0.0	2.21
14	4.8	8.0	9.7	8.0	2.4	0.0	0.8	0.8	0.0	0.0	0.0	0.0	1.84
15	11.3	6.4	3.2	2.4	2.4	0.0	0.0	0.0	0.0	0 0	0.0	0.0	1.57
16	9.7	15.3	11.3	6.4	1.6	2.4	1.6	0.8	0.0	0.8	0.8	0.0	3.08
17	12.1	3.2	1.6	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.11
18	4.8	6.4	4.8	1.6	7.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0	1.50
19	8.9	8.0	8.0	1.6	2.4	0.8	0.0	0.0	0.0	0.0	3.2	0.8	2.11
20	9.7	9.7	8.9	6.4	4.8	0.8	0.0	0.0	0.0	0.0	0.0	1.6	2.21
21	8.9	6.4	8.9	7.2	2.4	0.0	0.0	0.8	3.2	0.8	0.8	0.0	2.31
22	8.9	11.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.01
23	4.0	3.2	1.6	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.93
24	4.0	4.8	4.0	3.2	0.0	0.8	0.0	0.8	1.6	0.8	0.8	0.0	1.17
25	5.6	12.1	11.3	8.0	4.0	1.6	1.6	2.4	0.8	0.0	0.8	0.0	2.44
26	6.4	5.6	6 4	6.4	4.0	1.6	0.0	0.0	0.8	0.0	0.0	0.0	1.97
27	3.2	10.5	9.7	8.0	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	2.38
28	7.2	8.0	10.5	0.8	0.8	0.8	0.8	1.6	0.0	0.0	0.0	0.0	2.07
29	6.4	5.6	8.9	5.6	0.8	0.0	0.0	0.8	0.0	0.0	0.8	0.0	2.14
30	9.7	10.5	8.0	6.4	3.2	1.6	0.8	0.8	0.0	0.8	0.8	0.0	2.81
31	8.0	7.2	8.9	9.7	5.6	3.2	2.4	1.6	0.8	0.8	0.8	0.0	3.01
Hourly Means.	6.72	6.95	6.49	4.39	2.76	1.16	0.59	0.41	0.23	0.21	0.31	0.15	1.92

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	2	6	5	7	6	5	6	7	8	7	7	—
2	2	1	1	0	2	4	9	9	7	7	7	8	—
3	9	7	6	7	7	6	3	2	2	3	5	9	—
4	6	3	3	5	4	10	6	8	9	9	9	8	—
5	7	8	7	4	6	9	10	8	8	10	9	10	—
6	7	9	10	10	10	10	7	8	10	10	10	10	—
7	9	9	9	7	6	7	7	8	9	9	9	10	—
8	10	10	8	7	10	10	10	10	10	10	10	10	—
9	10	10	10	10	10	10	10	10	10	7	10	10	—
10	9	10	9	2	3	3	2	2	2	3	5	4	—
11	10	10	10	10	9	10	2	1	1	1	2	3	—
12	9	10	9	8	1	2	6	6	2	5	5	7	—
13	7	8	9	7	8	6	3	4	4	3	2	4	—
14	2	1	5	4	3	1	2	0	1	6	5	3	—
15	1	1	6	3	6	6	9	6	4	4	8	9	—
16	7	7	9	9	9	10	7	6	4	6	6	6	—
17	8	8	9	9	8	8	6	6	7	7	9	9	—
18	6	7	10	10	6	7	9	8	7	6	9	10	—
19	5	3	3	2	4	6	3	0	0	0	0	8	—
20	10	4	2	2	3	3	7	6	6	9	9	9	—
21	9	10	10	10	10	10	10	10	9	8	9	9	—
22	8	10	3	4	10	10	10	10	9	9	10	9	—
23	10	10	10	10	10	8	9	10	10	10	10	10	—
24	9	10	10	9	9	10	10	9	7	7	8	7	—
25	8	9	7	5	4	8	7	6	6	5	6	7	—
26	9	9	7	7	6	9	9	9	4	6	6	10	—
27	9	10	9	10	10	10	10	9	7	7	5	5	—
28	10	10	10	9	10	8	7	7	5	5	5	8	—
29	10	9	9	7	6	9	2	2	5	6	7	6	—
30	4	6	4	3	4	5	7	7	4	3	3	5	—
31	9	9	7	7	9	9	4	2	2	4	2	7	—
Hourly Means.	7.5	7.4	7.3	6.5	6.8	7.4	6.7	6.3	5.7	6.2	6.7	7.6	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	4	4	6	8	7	7	7	6	4	6	6	5	5.8
2	8	6	7	8	8	9	10	8	8	7	9	9	6.4
3	9	10	10	10	10	10	10	10	10	7	9	4	7.3
4	10	10	10	9	9	9	9	7	7	8	10	10	7.8
5	6	3	9	10	10	6	10	10	8	4	6	7	7.7
6	10	10	10	10	10	10	10	10	7	7	6	8	9.1
7	10	10	10	10	10	10	10	10	10	10	10	10	9.1
8	10	10	9	9	9	9	7	9	9	10	10	10	9.4
9	7	5	3	4	4	4	9	9	7	9	9	7	8.1
10	7	6	5	4	8	10	10	10	10	9	7	10	6.3
11	5	3	3	3	5	8	5	4	3	3	2	8	5.0
12	3	4	1	2	2	3	4	5	5	7	8	9	5.1
13	5	5	7	3	5	10	10	10	3	2	1	1	5.3
14	4	4	4	4	5	4	5	3	2	3	5	7	3.5
15	7	8	9	10	10	6	4	5	5	5	6	6	6.0
16	5	7	6	8	10	10	10	10	10	10	8	7	7.8
17	9	10	10	10	10	10	4	5	8	7	5	4	7.8
18	7	7	5	6	9	10	10	9	7	7	4	7	7.6
19	7	3	3	3	9	9	9	9	7	7	10	10	5.0
20	1	0	7	3	0	1	1	0	3	4	7	8	4.4
21	7	7	6	7	7	8	8	10	7	6	6	10	8.5
22	8	10	10	10	10	10	10	9	10	10	10	10	9.1
23	7	7	7	9	10	9	9	9	8	8	9	8	9.0
24	7	8	7	10	9	9	10	10	9	7	9	7	8.6
25	6	6	7	7	5	5	10	9	10	10	10	9	7.2
26	10	9	8	9	9	10	10	10	10	10	10	10	8.6
27	6	7	7	6	6	7	9	9	9	10	10	10	8.2
28	7	7	9	10	10	9	10	10	10	10	10	10	8.6
29	7	9	10	10	10	10	10	10	9	9	10	9	8.0
30	2	1	0	0	0	4	9	10	10	9	10	10	5.0
31	7	7	4	3	6	7	10	10	6	10	6	7	6.4
Hourly Means.	6.7	6.6	6.7	6.9	7.5	7.8	8.4	8.2	7.5	7.5	7.7	8.0	7.15

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH.	1	28.9	28.5	29.7	27.0	19.8	23.0	P	13.3	12.1	5.8	4.0	5.0	—
	2	19.5	20.4	21.8	14.1	16.6	16.2	23.2	16.6	9.2	7.1	6.0	5.4	—
	3	17.3	15.4	20.4	24.1	14.7	16.2	18.3	10.2	9.0	6.6	5.6	4.2	—
	4	33.2	32.4	33.2	P	P	P	P	27.9	13.3	13.1	7.5	— 8.3	—
	5	21.2	30.3	27.4	31.1	P	P	20.8	10.0	14.3	10.8	12.1	7.7	—
	6	33.2	33.2	27.9	— 0.8	10.0	24.1	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—	—	—	10.1	10.8	8.8	—
	8	15.7	25.8	39.6	37.1	28.3	7.0	3.8	3.8	40.9	N	N	—12.6	—
	9	42.7	46.4	N	P	N	N	—31.4	—29.5	27.0	27.6	9.5	3.2	—
	10	30.8	27.6	19.5	20.7	27.6	44.0	25.1	15.7	11.3	8.2	5.0	5.7	—
	11	23.3	22.6	27.6	28.3	30.1	27.6	46.4	18.8	9.5	9.5	8.8	9.5	—
	12	27.0	21.3	27.0	27.0	26.4	28.9	30.8	16.3	9.5	8.2	7.6	5.7	—
	13	12.6	14.4	15.0	13.2	12.6	14.4	15.7	15.7	13.8	9.5	5.7	4.5	—
	14	41.5	35.9	31.4	28.9	28.3	37.1	44.6	30.8	10.8	10.8	7.6	5.7	—
	15	18.2	20.7	22.0	24.5	20.7	37.1	33.3	26.4	17.0	8.8	8.2	6.3	—
	16	30.8	34.6	28.9	23.8	27.0	35.9	39.6	19.5	7.6	5.7	5.7	5.0	—
	17	17.5	27.6	19.5	— 7.6	15.7	16.3	22.0	—	—	—	—	—	—
	18	33.3	26.4	24.5	21.3	25.1	33.3	22.0	33.9	20.1	12.6	7.6	15.7	—
	19	34.6	40.2	31.4	30.1	27.6	27.6	P	28.9	22.0	12.0	8.8	8.2	—
	20	25.1	33.3	23.3	29.6	24.5	31.4	43.4	28.3	18.8	11.3	8.2	8.8	—
	21	30.1	N	P	N	N	— 8.1	14.4	—	—	—	13.2	12.0	—
	22	27.0	27.6	27.6	29.6	16.3	17.5	25.1	17.0	17.5	12.0	7.6	7.0	—
	23	23.3	24.5	18.8	10.8	12.0	21.3	15.7	16.3	15.7	10.1	9.5	3.2	—
	24	28.9	28.9	28.3	27.6	34.6	33.9	39.6	42.7	20.7	10.1	5.7	7.0	—
	25	33.9	28.3	27.6	28.9	28.3	36.4	35.2	21.3	10.8	8.2	4.5	8.8	—
	26	18.8	14.4	16.3	18.2	23.3	19.5	30.8	17.5	13.2	8.8	6.3	10.1	—
	27	29.6	22.6	16.3	16.3	13.2	11.3	14.4	20.1	15.7	12.0	8.8	8.8	—
	28	18.2	12.6	13.8	15.0	12.0	16.3	30.1	18.8	9.5	8.2	7.0	6.3	—
	29	24.5	32.1	29.6	28.9	24.5	28.3	28.9	15.7	11.3	7.0	5.7	6.3	—
	30	14.4	13.8	10.8	13.2	17.0	15.0	27.0	19.5	14.4	8.2	0.7	— 0.6	—
	31	24.5	18.2	17.0	16.3	18.2	20.7	18.2	12.0	8.2	8.2	5.7	1.9	—
Hourly Means.		26.0	26.2	24.2	21.4	21.3	23.4	24.5	18.1	14.9	10.0	7.3	5.5	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MARCH.	1	7.5	7.9	5.0	20.0	P	23.2	25.4	22.4	28.1	24.5	23.7	22.0	18.5
	2	4.3	4.3	1.9	6.0	6.4	15.8	21.6	23.7	31.9	30.9	23.9	13.9	15.0
	3	N	N	N	N	4.2	29.5	32.0	20.8	15.8	27.9	29.5	29.1	17.5
	4	N	N	8.3	10.0	8.1	18.5	30.3	P	26.2	15.6	N	10.8	17.5
	5	8.1	6.4	6.6	N	P	N	17.1	14.9	29.9	28.7	28.3	26.2	18.5
	6	—	—	—	—	—	—	—	—	—	—	—	—	21.3
	7	P	41.5	22.6	22.0	33.9	P	N	N	20.7	P	3.2	—13.2	16.0
	8	27.0	12.0	8.8	12.0	15.0	17.5	18.2	13.2	18.2	8.2	7.0	6.3	16.0
	9	8.2	8.2	7.6	8.8	13.2	18.2	39.6	27.0	25.1	19.5	22.0	28.3	16.1
	10	5.7	5.7	8.2	5.0	3.2	P	PN	P	— 2.5	18.2	27.0	30.1	16.3
	11	8.8	9.5	10.1	10.1	23.3	— 9.4	22.0	22.6	22.0	30.8	29.6	31.4	19.7
	12	7.0	11.3	5.7	7.0	8.2	11.3	23.8	33.3	25.1	25.1	21.3	15.0	17.9
	13	8.2	6.3	7.0	12.0	9.5	8.2	N	N	— 2.5	30.8	23.8	37.7	13.1
	14	4.5	5.7	5.0	5.7	12.0	19.5	32.1	15.7	18.2	19.5	19.5	21.3	20.5
	15	12.0	—10.1	4.5	33.9	12.0	15.0	25.8	32.7	20.7	26.4	27.0	33.3	19.9
	16	3.2	6.3	4.5	8.2	18.2	P	44.0	28.9	18.8	— 1.8	20.7	14.4	18.7
	17	37.7	P	P	P	3.2	17.0	23.3	21.3	29.6	24.5	23.8	25.8	19.8
	18	10.1	11.3	13.8	N	N	N	44.0	35.9	26.4	41.5	38.4	42.7	25.7
	19	10.1	10.1	14.4	20.7	35.2	P	31.4	30.1	29.6	27.6	34.6	32.1	24.9
	20	10.8	11.3	13.2	10.8	12.0	20.7	29.6	26.4	28.9	23.3	13.2	23.8	21.3
	21	9.5	10.8	9.5	10.8	19.5	24.5	30.1	37.7	28.3	19.5	35.2	49.6	20.4
	22	8.8	12.6	N	N	N	3.2	25.1	27.6	28.3	30.1	18.8	16.3	19.2
	23	8.8	8.8	7.6	— 2.5	—10.7	14.4	21.3	12.0	23.8	25.8	30.8	23.3	14.4
	24	6.3	6.3	6.3	PN	36.4	P	N	N	12.0	17.0	18.2	23.8	21.7
	25	7.0	5.0	6.3	27.6	8.2	18.8	15.7	15.7	P	14.4	15.7	21.3	18.6
	26	4.5	0.7	6.3	7.6	8.8	13.8	25.8	25.8	21.3	24.5	28.3	35.2	16.7
	27	7.0	5.7	7.0	5.7	12.0	9.5	— 1.8	25.1	32.1	21.3	25.8	13.2	14.7
	28	—	—	—	N	23.8	13.2	18.2	N	18.8	17.0	23.3	23.8	16.1
	29	11.3	7.6	3.8	15.0	P	5.7	22.0	19.5	20.7	18.8	16.3	13.8	17.3
	30	3.8	3.2	1.9	2.5	3.2	10.8	17.5	21.3	26.4	20.1	28.3	22.0	13.1
	31	6.3	5.7	0.0	1.3	4.5	12.0	12.6	15.7	15.0	15.7	12.6	17.5	12.0
Hourly Means.		9.5	8.2	7.5	11.3	12.9	14.4	24.9	23.7	22.0	22.3	23.1	23.0	18.01

BAROMETRIC PRESSURE.

BAROMETER AT 0°C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	7.59	7.27	7.44	7.56	7.73	8.25	8.75	8.85	9.14	9.47	8.89	8.33	—
2	8.86	8.56	8.27	8.52	8.22	8.52	8.87	9.76	10.02	9.87	9.46	8.79	—
3	9.00	8.34	8 11	8.07	8.54	8.82	9.42	9.74	9.81	9.69	9.27	8.41	—
4	8.89	8.31	8.30	8.31	8.35	8.54	9.00	9.61	9.70	9.62	9.29	8.51	—
5	8.77	8.54	8.10	7.95	8.26	8.62	9.16	9.35	9.99	9.72	9.12	8.39	—
6	8.72	8.48	8.25	8.07	8.23	8.58	9.30	9.91	10.36	10.35	9.72	8.70	—
7	8.12	7.87	7.43	7.53	7.55	7.91	8.72	9.00	9.32	9.57	9.17	8.52	—
8	8.42	8.24	7.97	7.88	7.86	8.13	8.61	9.15	9.50	9.26	8.99	8.53	—
9	8.64	8.11	8.04	8.17	8.38	8.75	8.80	9.06	9.39	9.20	8.59	8.05	—
10	8.76	8.54	8.47	8.45	8.61	8.90	9.44	9.90	10.23	10.37	9.99	9.71	—
11	9.83	9.40	9.20	9.03	9.16	9.46	10.03	10.50	10.80	10.63	10.07	9.19	—
12	9.58	8.94	8.87	9.00	8.67	8.88	8.97	9.30	9.70	9.32	9.23	8.70	—
13	8.34	7.86	7.67	7.85	8.07	8.61	8.92	9.13	9.06	8.92	8.63	7.54	—
14	7.82	7.11	7.06	7.03	7.03	7.65	8.06	8.45	8.67	8.66	8.04	7.33	—
15	7.44	6.85	6.73	6.81	7.12	7.28	7.60	8.11	8.72	8.75	8.14	7.64	—
16	7.27	6.79	6.26	6.68	7.01	7.47	7.93	8.22	8.50	8.61	7.89	7.23	—
17	7.24	6.87	6.55	6.42	6.55	6.87	7.48	7.87	8.12	8.05	7.77	7.16	—
18	6.69	6.35	6.10	6.01	6.02	6.40	6.77	6.92	7.06	7.10	6.58	5.73	—
19	6.11	5.47	5.42	5.19	5.21	5.47	6.35	6.79	6.79	6 80	6.77	6.33	—
20	6.09	5.66	5.57	5.74	6.11	6.67	6.77	7.11	7.34	7.03	6.49	6.04	—
21	5.96	5.50	5.05	4.76	5.22	5.89	6.34	6.87	7.00	6.98	6.78	6.13	—
22	5.90	5.82	5.19	5.06	5.17	5.53	6.50	6.84	7.36	7.35	6.93	6.43	—
23	7.67	7.20	7.12	7.07	7.08	7.50	7.72	8.08	8.47	8.31	8.23	7.85	—
24	9.27	8.72	8.67	8.74	8.95	9.21	9.48	10.10	10.28	10.24	9.73	9.31	—
25	10.40	10.11	9.88	9.84	10.15	10.56	11.08	11.46	11.80	11.74	11.18	10.37	—
26	10.38	9.60	9.44	9.13	9.12	9.22	10.00	10.43	10.54	10.72	10.30	9.88	—
27	9.16	8.80	8.47	8.44	8.43	8.47	8.95	9.30	9.40	9.21	8.59	7.68	—
28	7.59	7.27	7.15	7.07	7.20	7.41	7.82	7.98	8.11	7.98	7.42	6.62	—
29	7.17	6.98	7.05	6.92	7.11	7.48	8.16	8.68	9.02	9.11	8.80	8.14	—
30	8.51	8.09	8.06	8.15	8.22	8.65	9.30	9.75	10.01	10.05	9.62	9.08	—
Hourly Means.	8.14	7.72	7.53	7.51	7.64	7.99	8.48	8.87	9.14	9.09	8.66	8.01	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL. 1	7.62	7.50	7.10	6.81	7.24	7.54	8.11	8.74	9.12	9.54	9.53	9.32	8.23
2	8.36	7.63	7.12	7.08	7.38	7.96	8.37	8.77	9.39	9.48	9 38	9.48	8.67
3	7.44	6.58	6.26	6.21	6.76	7.42	8.59	9.37	9.92	9.91	9.69	9.48	8.54
4	7.56	7.03	6.42	6.35	6.53	7.19	8.11	8.99	9.46	9.68	9.63	9.07	8.44
5	7.80	7.58	7.43	7.29	7.32	7.71	8.12	8.62	9.05	9.06	9.22	9.08	8.51
6	8.02	7.16	6.46	6.33	6.77	7.25	7.80	8.50	8,88	8.96	8.91	8.81	8.44
7	7.68	6.88	7.03	6.91	6.60	7.07	7.73	8.06	8.55	8.85	9.17	8.91	8.09
8	7.94	7.43	6.88	6.44	6.62	7.20	8.00	8.65	9.15	9.44	9.35	9.16	8.28
9	7.51	6.89	6.43	6.44	6.47	6.60	6.78	7.03	7.56	7.80	7.94	7.67	7.85
10	8.70	8.23	7.58	7.29	7.60	8.14	8.29	8 89	9.40	9.70	9.94	9.83	8.96
11	8.29	7.42	6.62	6.52	7.03	7.68	8.38	8.98	9.44	9.77	10.02	9.79	9.05
12	7.71	7.16	7.17	6.73	7.33	7.61	7.79	8.48	8.65	9.07	9.10	8.81	8.53
13	6.76	6.27	5.73	5.88	6.25	6.69	7.32	8.02	8.39	8.71	8.72	8.40	7.82
14	6.68	6.44	5.97	6.48	6.73	7.09	7.75	8.06	8.49	8.61	8.65	8.06	7.58
15	7.03	6.73	6.40	6.26	6.61	6.96	8.08	8.29	8.71	8.80	8.47	7.81	7.56
16	6.51	5.69	5.32	5.26	5.86	6.24	6.84	7.58	8.16	8.31	8.24	7.91	7.16
17	6.51	5.74	5.42	5.49	6.49	7.02	7.69	8.08	8.43	8.14	8.01	7.39	7.14
18	5.03	4.36	4.33	4.67	5.12	5.72	6.37	6.70	7.24	7.53	7.59	6.75	6.21
19	5.43	4.93	4.35	4.67	5.03	5.26	5.84	6.54	6.67	6.68	6.71	6.34	5.88
20	5.16	4.58	4.21	4.16	4.75	5.38	5.66	6.44	6.63	6.69	6.93	6.60	5.99
21	5.28	4.75	4.50	4.62	5.28	5.81	6.44	6.88	7.24	7.65	7.19	6.84	6.04
22	6.85	6.08	5.72	5.61	5.91	6.77	6.92	7.47	7.77	8.09	8.00	7.81	6.55
23	7.34	6.90	6.34	6.41	6.61	7.04	7.78	8.63	9.09	9.47	9.97	9.74	7.82
24	8.54	8.09	7.34	7.63	7.82	8.29	8.94	9.40	10.13	10.40	10.69	10.53	9.19
25	9.79	9.11	8.51	8.23	8.68	8.91	9.39	9.80	10.32	10.62	10.70	10.69	10.14
26	9.13	8.29	7.81	7.63	7.98	8.47	9.05	9.59	9.87	9.87	9.80	9.79	9.42
27	7.19	6.46	5.98	5.98	6.06	6.56	6.92	7.45	7.70	8.04	8.25	8.15	7.90
28	6.13	5.39	5.08	4.84	5.61	5.84	6.59	6.90	7.21	7.67	7.47	7.46	6.91
29	7.35	6.82	6.34	6.29	6.65	6.84	7.58	8 19	8.63	8.70	8.70	8.67	7.72
30	8.29	7.73	7.53	7.31	7.48	8.33	8.59	9.31	9.67	9.65	9.48	9.04	8.75
Hourly Means.	7.32	6.73	6.31	6.26	6.62	7.09	7.66	8.21	8.63	8.83	8.85	8.58	7.91

STANDARD THERMOMETER.

APRIL.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	75.6	75.4	75.0	74.7	74.2	74.2	75.0	77.7	79.8	82.0	84.1	82.2	—
2	75.6	75.2	75.2	75.2	75.2	75.2	76.0	77.5	80.2	82.5	84.0	86.0	—
3	76.8	76.2	75.8	75.2	74.7	74.0	74.0	76.2	80.3	82.7	85.6	87.9	—
4	77.0	76.7	76.0	75.5	74.7	74.3	74.5	76.9	80.4	83.5	85.8	86.6	—
5	75.2	75.2	75.2	74.8	74.2	73.6	74.7	77.0	80.0	83.1	85.0	84.0	—
6	74.2	74.0	74.0	73.7	73.7	73.5	73.6	74.8	76.8	80.0	82.0	84.0	—
7	75.3	74.6	74.0	73.2	72.8	72.5	73.1	76.0	79.0	82.1	84.5	85.1	—
8	75.7	75.0	75.2	74.9	74.2	73.3	73.2	74.5	77.2	80.7	83.6	80.7	—
9	76.3	75.5	74.9	74.5	74.5	74.4	75.1	77.1	79.8	82.1	84.4	85.9	—
10	76.0	75.6	75.2	74.4	74.0	73.6	75.0	78.0	80.3	82.3	83.9	82.0	—
11	75.7	75.4	75.0	74.2	73.8	73.1	73.7	77.0	80.2	83.0	84.5	86.0	—
12	76.5	75.5	75.0	74.6	74.6	74.1	75.2	78.0	80.1	81.3	83.2	84.1	—
13	76.0	75.2	75.0	74.7	74.1	73.9	74.2	77.0	79.3	82.0	84.6	85.0	—
14	75.1	75.0	74.3	74.0	74.0	73.5	74.0	76.4	79.0	81.4	82.4	83.8	—
15	75.0	74.5	74.1	73.7	73.3	73.2	74.2	76.5	79.7	82.0	84.4	79.4	—
16	75.3	75.0	74.7	74.0	74.0	73.7	74.0	76.1	79.1	81.8	84.0	86.2	—
17	76.6	75.7	75.0	74.4	74.0	73.7	74.0	77.0	81.2	83.8	84.5	85.6	—
18	77.9	77.9	77.7	77.2	77.0	76.7	76.6	78.0	80.7	82.6	84.0	84.2	—
19	77.0	76.8	76.6	76.4	75.7	75.7	76.3	77.8	80.0	81.3	83.0	83.0	—
20	77.2	77.2	77.1	76.6	76.4	76.2	76.9	78.5	80.5	83.4	85.4	86.7	—
21	76.1	75.7	75.3	75.0	75.0	75.2	75.8	77.7	81.0	82.7	83.3	86.0	—
22	74.7	74.7	74.5	74.4	74.5	74.3	75.0	76.0	77.2	79.2	83.0	83.6	—
23	74.7	74.2	74.0	74.0	74.0	73.8	74.0	75.8	78.0	80.5	82.9	83.7	—
24	76.1	75.9	75.6	75.2	75.0	75.4	76.0	77.0	78.0	79.2	81.2	83.8	—
25	75.0	75.0	75.0	74.8	74.6	74.2	74.8	76.5	78.3	78.9	81.2	83.3	—
26	75.2	74.7	74.3	73.9	73.2	72.8	73.0	76.3	79.8	82.6	84.8	84.3	—
27	75.4	75.0	74.7	74.2	73.5	72.7	72.5	75.0	79.0	81.2	84.0	85.4	—
28	75.0	74.8	74.6	74.0	73.8	73.6	74.0	76.8	80.0	82.6	83.9	84.7	—
29	73.7	73.2	72.8	72.2	72.0	71.6	71.8	74.1	77.4	80.4	82.3	84.0	—
30	75.4	74.9	74.5	74.1	73.7	73.2	73.8	75.4	78.0	80.6	82.6	83.1	—
Hourly Means.	75.71	75.32	75.01	74.59	74.28	73.97	74.47	76.62	79 34	81.72	83.74	84.34	—

APRIL.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	79.9	79.5	81.5	81.8	81.2	79.6	78.0	77.1	76.7	76.7	76.0	75.3	78.05
2	85.7	85.8	85.8	84.6	83.2	81.8	80.7	80.0	79.3	78.1	77.4	77.1	79.89
3	89.0	89.5	88.0	86.4	84.8	83.0	81.8	81.0	79.9	79.5	78.8	77.6	80.78
4	86.2	85.6	86.9	84.0	83.0	81.7	80.2	79.0	77.5	76.6	75.9	75.2	79.74
5	78.7	77.0	75.9	75.3	75.3	75.3	75.3	75.1	75.0	74.7	74.7	74.7	76.63
6	84.9	85.8	85.4	85.0	84.0	83.0	81.2	79.4	78.8	77.8	77.0	76.2	78.87
7	86.2	85.5	83.6	81.0	81.5	80.8	79.0	77.9	77.5	77.1	76.4	76.0	78.53
8	78.4	81.0	83.5	83.0	82.3	81.5	80.0	79.0	78.2	77.9	77.7	77.1	78.24
9	84.7	85.2	84.8	83.0	81.2	81.0	80.8	80.2	79.1	78.3	78.0	77.5	79.51
10	84.0	81.3	81.9	82.0	82.0	81.5	80.0	78.5	77.5	76.8	76.1	75.7	78.65
11	87.4	88.2	89.0	87.0	85.1	83.7	83.3	82.3	77.6	77.0	77.0	77.0	80.26
12	84.8	85.5	82.7	80.0	79.8	79.4	78.5	77.7	77.5	77.0	76.9	76.5	78.69
13	87.0	87.7	84.1	78.4	77.5	77.5	77.7	77.5	77.1	77.1	76.6	75.7	78.54
14	84.6	84.5	82.4	77.6	78.2	77.8	77.8	77.2	77.0	76.5	76.0	75.7	77.84
15	79.1	82.3	77.0	79.4	79.8	79.2	78.7	77.8	77.3	76.7	76.0	75.4	77.45
16	87.0	85.6	83.0	83.0	83.4	82.0	80.8	79.7	78.6	77.8	77.4	77.0	79.30
17	83.8	84.8	85.2	84.8	82.8	81.0	80.1	79.5	78.9	78.3	78.1	78.1	79.62
18	86.5	87.0	85.0	82.0	80.6	79.2	78.8	78.2	77.5	77.5	77.4	77.2	79.89
19	85.5	86.4	86.1	84.5	82.1	81.5	81.0	80.5	80.0	79.5	78.8	78.0	80.15
20	87.6	88.2	87.0	85.4	83.6	81.9	80.6	79.1	78.1	77.7	77.2	77.0	80.65
21	86.4	86.4	86.4	83.5	82.1	81.5	81.3	79.0	77.1	77.0	76.1	75.1	79.61
22	75.3	75.7	76.6	78.0	78.0	76.0	75.4	75.3	75.2	75.2	75.0	74.8	76.32
23	85.5	84.1	85.2	84.8	84.6	82.6	80.6	79.2	78.0	77.2	76.5	76.2	78.92
24	85.3	83.6	83.8	83.5	81.8	79.7	78.1	77.5	77.0	77.0	76.3	75.6	78.65
25	84.2	85.4	85.6	85.6	84.0	81.6	79.8	80.0	78.7	77.6	76.9	75.9	79.04
26	84.0	85.5	85.0	83.8	82.5	81.4	81.2	80.3	79.4	78.0	76.8	76.0	79.12
27	86.5	86.0	86.0	84.8	83.2	82.2	81.5	79.6	78.8	77.4	76.3	75.7	79.19
28	85.5	85.0	84.2	83.5	83.0	82.0	78.2	77.0	76.0	75.2	74.5	74.2	78.59
29	84.2	83.7	83.6	82.7	81.9	81.0	79.7	78.9	78.0	77.1	76.6	76.1	77.88
30	83.5	84.7	84.9	84.5	83.5	82.0	81.0	79.5	78.5	77.9	77.5	77.0	78.91
Hourly Means.	84.38	84.55	84.00	82.76	81.87	80.75	79.70	78.77	77.86	77.27	76.73	76.22	78.92

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	856	864	872	888	913	921	922	836	803	750	688	737	—
2	872	888	888	880	888	888	864	844	753	696	634	610	—
3	833	841	848	863	871	878	895	849	759	710	623	595	—
4	858	866	881	889	897	913	904	866	788	685	635	619	—
5	889	889	889	905	930	947	914	891	796	684	671	756	—
6	973	965	965	965	965	965	965	956	875	766	694	694	—
7	922	939	947	955	955	955	937	864	809	715	636	671	—
8	914	922	905	922	930	955	964	930	867	768	734	755	—
9	874	889	913	921	930	947	939	883	833	743	701	654	—
10	915	915	922	939	939	930	922	852	767	709	734	750	—
11	905	898	905	913	929	937	921	866	753	684	670	637	—
12	932	922	922	930	922	938	931	884	804	799	760	721	—
13	906	939	930	939	956	947	938	875	809	736	703	691	—
14	956	956	965	973	965	973	965	932	885	806	751	706	—
15	939	947	956	956	965	956	956	916	825	793	736	878	—
16	939	947	956	965	947	947	939	890	823	785	742	664	—
17	857	880	904	921	930	929	930	874	798	741	716	692	—
18	820	829	836	843	818	833	866	861	789	730	680	694	—
19	842	858	874	882	856	832	809	828	818	783	774	738	—
20	900	891	891	906	915	923	891	846	797	747	672	645	—
21	881	889	898	905	871	863	864	805	761	716	719	675	—
22	939	939	939	947	947	956	956	931	907	878	759	686	—
23	956	956	956	965	956	947	947	898	846	775	691	666	—
24	865	864	880	897	905	905	889	866	845	839	791	699	—
25	939	939	930	939	930	947	930	891	837	847	806	747	—
26	888	913	912	921	937	937	937	850	743	696	637	702	—
27	922	930	922	930	938	973	910	847	784	719	615	609	—
28	913	922	930	930	929	929	930	899	825	766	721	717	—
29	938	955	955	955	946	955	946	930	867	774	715	693	—
30	931	947	947	947	947	946	947	940	893	820	752	739	—
Hourly Means.	902	910	915	923	924	929	921	880	815	755	705	695	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL. 1	810	809	770	735	761	802	829	842	850	842	873	897	828
2	622	641	641	696	705	736	767	765	793	813	827	834	773
3	579	559	631	643	650	717	770	790	810	824	822	852	759
4	630	609	627	654	644	693	715	799	835	842	880	889	776
5	885	916	931	947	947	956	966	974	974	973	965	965	898
6	677	681	647	703	693	774	805	801	783	828	874	898	830
7	631	609	706	776	791	804	878	867	892	907	923	923	834
8	877	827	713	767	793	828	810	831	853	868	867	867	853
9	716	718	709	671	698	783	827	811	847	884	892	883	819
10	707	770	728	764	757	784	825	862	884	916	923	923	839
11	617	585	553	703	731	748	789	808	891	924	932	957	802
12	724	719	731	802	855	863	877	907	916	932	932	915	860
13	677	635	783	893	917	925	933	941	949	924	916	931	866
14	736	757	838	907	917	933	925	941	941	948	948	940	899
15	942	808	924	902	894	918	942	933	941	940	957	966	912
16	660	727	745	774	775	777	811	832	846	852	859	858	836
17	741	737	725	753	723	761	803	809	831	829	829	836	815
18	644	602	677	777	760	779	830	813	835	835	819	827	783
19	640	619	624	676	764	784	797	803	833	839	869	892	793
20	618	614	627	653	678	707	760	816	845	852	859	866	788
21	650	638	663	719	792	821	836	894	932	949	923	930	816
22	939	931	957	885	933	940	957	966	974	966	966	956	923
23	660	675	653	638	657	730	767	801	829	851	874	873	815
24	652	748	741	761	800	810	860	875	906	906	906	923	839
25	728	647	641	616	687	756	810	818	838	867	851	873	826
26	694	647	684	699	751	791	776	818	839	901	916	915	813
27	595	642	611	618	704	758	821	909	926	924	923	923	811
28	705	709	721	760	773	792	814	866	915	930	930	938	844
29	700	705	705	710	742	761	832	877	900	924	932	940	848
30	726	709	696	708	719	792	836	863	901	925	908	924	853
Hourly Means.	706	700	713	744	767	801	832	854	877	891	897	904	832

DIRECTION OF THE WIND.

APRIL.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	W	C	W	W	C	C	W	W	NW	NW	NNW
2	C	W	W	C	W	W	C	C	W	W	WNW	W
3	C	W	W	C	C	C	C	C	W	W	WNW	W
4	C	C	C	C	C	C	W	C	W	NW	WNW	NW
5	C	C	C	C	C	C	W	C	W	N	NW	NNW
6	C	C	C	C	C	C	C	WSW	C	W	NNW	NNW
7	C	C	NNW	C	NNW	C	NW	NW	W	W	NNE	NNE
8	C	C	C	C	C	SW	C	C	SW	NW	NW	NW
9	C	C	C	C	C	C	WNW	WNW	WSW	WNW	WNW	NW
10	C	C	C	C	C	C	NNW	NNW	NW	NW	NNE	N
11	C	C	C	C	C	C	C	C	W	WSW	W	WNW
12	S	SSE	C	C	C	C	SE	C	S	SE	E	NNW
13	C	C	C	C	C	C	NW	W	WNW	SSW	E	SE
14	C	C	C	C	C	NE	C	C	NNE	N	NNW	NNW
15	C	C	C	C	C	C	SSW	C	NW	WSW	NW	NNW
16	C	C	C	C	C	C	C	WSW	W	WNW	NW	NNW
17	C	C	C	C	C	C	C	NW	WNW	WNW	W	WNW
18	W	W	W	W	W	WNW	WNW	NW	NW	WNW	WNW	WNW
19	WNW	W	WNW	W	W	WNW	WNW	W	WNW	WNW	NW	WNW
20	NW	NW	NW	NW	NW	NW	NW	W	W	WNW	WNW	W
21	C	C	C	C	WNW	WNW	WNW	WNW	WNW	W	W	NW
22	C	W	C	C	C	C	C	C	WNW	WNW	NW	NNW
23	C	C	C	C	WSW	WSW	C	WSW	WNW	W	NW	NW
24	C	C	C	C	C	NW	C	NW	WNW	WSW	W	WNW
25	C	C	C	C	C	C	W	WSW	WNW	WNW	W	NW
26	C	C	C	C	C	C	C	C	ENE	NNE	N	NNE
27	C	NE	NE	NE	C	C	NE	NE	SSE	SW	WSW	WNW
28	C	C	C	C	C	C	ENE	ENE	S	ESE	ESE	ENE
29	C	C	C	C	C	C	C	C	SSW	SSW	SW	NNW
30	C	C	C	C	C	C	C	C	N	ESE	ENE	S

APRIL.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NNW	WSW	W	W	W	W	W	W	W	W	W	C
2	WNW	WNW	W	W	W	W	W	W	C	C	C	W
3	WNW	NW	WNW	WNW	WNW	W	W	W	C	C	W	W
4	W	WNW	WNW	W	W	NW	W	W	C	C	C	W
5	NNW	SSW	SW	SW	SW	C	C	C	C	C	SW	C
6	NW	NNE	N	N	N	NNW	C	C	C	NNW	C	C
7	NNE	NNE	WNW	SSW	C	SSW	SSW	C	C	C	C	C
8	NNW	NNW	WNW	NW	NW	NW	NW	NW	NW	C	NW	W
9	N	NNE	N	NNW	NNW	NNW	NNW	C	C	C	C	C
10	N	SW	N	NW	W	NW	C	C	C	C	C	C
11	WNW	W	NNW	NNE	N	N	NNW	NNW	S	C	C	S
12	N	NW	NNW	NW	NW	C	C	C	C	C	C	C
13	N	NNE	NNW	C	C	C	C	C	NNW	ENE	C	C
14	NNW	NNE	N	SSW	C	C	C	C	C	C	C	C
15	NNW	WNW	W	WSW	C	C	C	C	C	C	C	C
16	NW	NW	W	WSW	WNW	NW	NW	NW	NW	NW	NW	C
17	WNW	WNW	W	WNW	W	W	WNW	WNW	W	WSW	WSW	W
18	WNW	WNW	W	WSW	WSW	SW	SW	WSW	WSW	W	WNW	WNW
19	WNW	WNW	WNW	NW	W	WNW	WNW	WNW	WNW	NW	WNW	NW
20	W	WNW	W	W	W	WNW	WNW	C	C	C	C	C
21	NNW	NNW	N	N	N	N	C	NW	C	NW	WNW	WSW
22	W	W	W	N	N	WSW	C	C	C	C	C	C
23	NW	NW	NW	NW	NW	NW	C	C	C	C	C	C
24	NW	NNE	N	NW	W	WSW	WSW	C	C	C	C	C
25	WNW	NW	WNW	WNW	NW	NNW	C	NNW	C	C	C	C
26	NNE	NE	N	NNE	NE	NE	NE	NE	C	NE	NE	NE
27	NE	NE	NNE	N	N	N	NNE	C	C	C	C	C
28	NNE	NNE	NE	NNE	NE	N	WSW	SSW	SSW	C	C	C
29	N	NNE	N	N	N	N	C	C	C	C	C	C
30	SW	WSW	ENE	NE	NE	NNE	NNE	C	C	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	0.0	0.8	0.0	0.8	0.8	0.0	0.0	0.8	2.4	3.2	4.8	7.2	—
	2	0.0	0.8	0.8	0.0	0.8	0.8	0.0	0.0	2.4	5.6	7.2	7.2	—
	3	0.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	3 2	5.6	8.0	10.5	—
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.2	6.4	11.3	13.7	—
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	3.2	5.6	4.8	—
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	5.6	6.4	—
	7	0.0	0.0	0.8	0.0	0.8	0.0	0.8	0.8	0.8	2.4	4.8	8.0	—
	8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	5.6	5.6	9.7	—
	9	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	4.0	4.8	6.4	8.0	—
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	3.2	15.3	10.5	—
	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	5.6	4.8	—
	12	1.6	2.4	0.0	0.0	0.0	0.0	0.8	0.0	4.0	3.2	4.8	7.2	—
	13	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.4	2.4	2.4	—
	14	0.0	0.0	0.0	0.0	0.0	0 8	0.0	0.0	1.6	2.4	2.4	3.2	—
	15	0 0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	3.2	5.6	12.1	—
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.8	8.0	11.3	—
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.4	8.0	8.9	9.7	—
	18	1.6	1.6	1.6	0.8	1.6	1.6	3.2	5.6	8.9	11.3	10.5	9.7	—
	19	1.6	1.6	1.6	0.8	1.6	3.2	3.2	3.2	4.0	5.6	5.6	5.6	—
	20	5.6	4.8	2.4	1.6	1.6	1.6	1.6	3.2	7.2	8.0	8.0	8 0	—
	21	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6	4.8	5.6	4.8	4.8	—
	22	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.2	5.6	6.4	—
	23	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.8	1.6	4.0	5.6	9.7	—
	24	0.0	0.0	0.0	0.0	0.0	0.8	0 0	0.8	2.4	2.4	2.4	3.2	—
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	2.4	4.0	6.4	—
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.6	5.6	8.9	—
	27	0.0	0.8	1.6	0.8	0.0	0.0	0.8	1.6	4.0	2.4	3.2	3.2	—
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.8	4.8	4.0	4.8	—
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	3.2	—
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.0	3 2	1.6	—
Hourly Means.		0.35	0.51	0.32	0.16	0.29	0.37	0.67	1.04	2.99	4.24	5.91	7.07	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	4.0	5.6	6.4	6.4	4.0	1.6	0.8	1.6	0.8	0.8	0.8	0.0	2.23
	2	8.0	7.2	5.6	5.6	4.0	1.6	0.8	1.6	0 0	0.0	0.0	0.8	2.53
	3	11.3	12.9	9.7	8.0	5.6	2.4	0.8	0.8	0.0	0.0	0.8	0.8	3.45
	4	11.3	9.7	10.5	5.6	4.8	3.2	2.4	1.6	0.0	0.0	0 0	0.8	3.55
	5	1.6	4.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.07
	6	5.6	10.5	9.7	8.0	5.6	1.6	0.0	0.0	0.0	0.8	0.0	0.0	2.34
	7	8.0	12.1	4.8	4.8	0.0	0.8	2.4	0.0	0.0	0.0	0.0	0.0	2.17
	8	0.8	3.2	5.6	4.0	1.6	0.8	0.8	0.8	0.8	0.0	0.8	1.6	1.80
	9	12.1	11.3	12.9	8.9	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	3.42
	10	7.2	4.8	6.4	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.44
	11	4.8	4.8	4.0	8.9	5.6	3.2	2.4	4.0	0.8	0.0	0.0	0.8	2.37
	12	8.9	5.6	5.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.90
	13	3.2	5.6	8.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.0	0.0	1.23
	14	6.4	8.0	7.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.37
	15	6.4	6.4	3.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.74
	16	8.9	9.7	4.8	3.2	4.0	0.8	1.6	0.8	0.8	1.6	0.8	0.0	2.68
	17	8.9	6.4	8.0	4.8	3.2	2.4	1.6	1.6	1.6	1.6	1.6	1.6	3.28
	18	8.9	8.9	9.7	8.0	4.8	2.4	0.8	0.8	0.8	1.6	3.2	3.2	4.63
	19	11.3	9.7	10.5	6.4	4.8	4.0	3.2	2.4	3.2	4.8	2.4	4.8	4.38
	20	8 0	7.2	8.0	7.2	4.8	3.2	1.6	0 0	0.0	0.0	0.0	0.0	3.90
	21	9.7	9.7	8.0	8.0	5.6	1.6	0.0	1.6	0.0	0.8	0.8	1.6	3.01
	22	3.2	0.8	0.8	1.6	0.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.13
	23	6.4	5.6	5.6	5.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.10
	24	4.0	7.2	4.0	2.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	1.37
	25	6.4	5.6	6.4	4.8	4.8	0.8	0.0	0.8	0.0	0.0	0.0	0.0	2.00
	26	10 5	9.7	8.9	8.0	8.0	4.8	2.4	1.6	0.0	0.8	0.8	0.8	3.15
	27	8.9	8.9	10.5	9.7	7.2	2.4	0.8	0.0	0.0	0.0	0.0	0.0	2.78
	28	8.9	12.1	12.9	10.5	4.8	0.8	2.4	0.8	0.8	0.0	0.0	0.0	3.15
	29	5.6	4.8	4.8	5.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.37
	30	1.6	4.0	8.0	5.6	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	1.63
Hourly Means.		7.03	7.43	7.04	5.37	3.55	1.60	0.91	0.69	0.35	0.48	0.43	0.56	2.47

CLOUDS.

CLEAR = 0. OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	2	3	4	10	9	8	6	6	6	7	7	10	—
	2	6	6	9	7	8	8	9	8	7	7	7	8	—
	3	7	8	7	5	7	6	0	2	6	2	1	0	—
	4	8	7	6	6	6	6	9	8	7	6	7	7	—
	5	10	10	10	10	10	10	4	3	3	3	5	10	—
	6	10	10	10	9	9	9	9	9	9	7	7	7	—
	7	2	1	2	1	1	0	1	1	2	3	3	4	—
	8	7	7	10	5	3	4	2	6	6	3	1	10	—
	9	7	6	5	9	10	7	5	7	5	4	4	5	—
	10	9	9	10	10	10	10	4	3	4	7	7	6	—
	11	2	4	4	2	3	3	9	7	7	5	5	5	—
	12	10	10	10	10	8	6	2	3	4	4	5	8	—
	13	4	7	7	6	6	4	2	1	0	1	6	9	—
	14	4	1	1	0	0	2	4	2	4	5	7	7	—
	15	5	5	3	5	7	8	6	4	5	7	7	10	—
	16	3	5	5	2	2	3	6	6	6	5	7	7	—
	17	4	3	4	6	5	9	9	4	3	4	7	7	—
	18	9	8	5	4	4	3	9	8	7	6	5	6	—
	19	9	9	9	7	9	10	10	10	10	10	10	10	—
	20	7	6	7	5	5	6	3	4	5	6	4	6	—
	21	8	7	7	5	5	7	6	9	7	7	6	7	—
	22	10	10	10	10	10	10	10	9	5	4	7	10	—
	23	6	6	7	9	8	10	5	4	7	7	9	10	—
	24	6	9	9	8	9	10	10	10	9	10	9	9	—
	25	9	9	9	7	9	9	10	8	8	8	8	8	—
	26	4	2	2	1	1	2	4	3	3	5	7	7	—
	27	0	4	3	4	6	7	2	1	2	1	1	3	—
	28	2	2	2	4	5	4	2	1	2	0	7	6	—
	29	2	1	2	0	1	3	5	4	4	4	6	6	—
	30	3	3	2	3	4	6	5	7	8	7	9	8	—
Hourly Means.		5.8	5.9	6.0	5.7	6.0	6.3	5.6	5.3	5.4	5.2	6.0	7.2	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	10	9	7	7	4	3	3	6	4	6	6	4	6.1
	2	10	9	9	9	9	9	9	9	8	5	6	7	7.9
	3	7	6	5	7	8	9	8	9	9	9	10	10	6.2
	4	6	7	7	8	5	4	5	6	7	9	9	10	6.9
	5	10	10	10	10	10	10	10	10	10	10	10	10	8.7
	6	6	3	3	2	3	6	3	4	4	3	4	3	6.2
	7	5	5	9	7	3	6	7	6	4	6	7	6	3.8
	8	10	7	6	6	7	5	6	7	7	9	9	9	6.3
	9	8	6	3	2	6	3	9	10	10	9	9	6	6.5
	10	9	7	5	5	3	3	3	0	0	0	5	3	5.5
	11	4	3	2	3	1	8	8	10	10	10	10	10	5.6
	12	7	7	10	7	9	7	8	7	6	7	9	4	7.0
	13	7	6	9	10	9	7	7	7	9	9	9	7	6.2
	14	6	7	9	9	8	7	2	2	1	0	0	0	3.7
	15	10	10	10	9	9	8	5	3	3	2	2	3	6.1
	16	7	7	8	8	9	8	7	5	3	4	7	6	5.7
	17	7	5	5	3	6	7	6	9	9	9	8	7	6.1
	18	6	4	6	9	9	9	9	7	7	9	9	9	7.9
	19	6	5	5	7	10	10	10	10	10	9	10	4	8.7
	20	4	4	6	7	9	5	4	6	6	8	6	7	5.7
	21	7	8	6	8	7	9	9	10	10	10	10	10	7.7
	22	10	10	9	7	7	10	10	10	10	9	8	6	8.8
	23	9	10	3	2	3	4	6	7	6	5	7	7	6.5
	24	7	8	8	10	6	10	4	2	2	2	1	1	7.0
	25	9	8	6	4	5	5	6	3	3	4	3	6	6.8
	26	4	3	2	2	2	8	7	4	4	3	3	3	3.6
	27	5	5	3	4	5	6	10	7	2	3	1	2	3.6
	28	6	3	3	3	4	5	10	10	7	3	5	3	4.1
	29	6	6	6	7	6	6	3	4	3	2	1	1	3.7
	30	9	7	7	7	6	4	3	2	6	4	6	7	5.5
Hourly Means.		7.2	6.5	6.2	6.3	6.3	6.7	6.6	6.4	6.0	5.9	6.3	5.7	6.10

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	18.1	18.8	23.2	23.2	14.9	16.8	25.8	29.1	12.9	10.3	7.7	— 1.3	—
	2	14.9	14.9	11.0	11.6	11.0	11.0	16 2	23.9	17.5	7.7	— 0.6	5.9	—
	3	14.9	13.6	12.9	16.2	14.2	13.6	27.1	23.9	18.1	9.7	2.6	— 6.5	—
	4	12.9	14.2	16.2	12.9	16.8	18 8	22.6	22.6	12.3	4.6	— 6.5	— 0.6	—
	5	12.3	16.2	12 3	12.9	19.4	14.2	25.8	16.2	10.3	6.5	7.1	N	—
	6	31.0	28.4	23.9	25.8	29.7	35.5	36.8	41.3	28.4	20.0	10.3	7.7	—
	7	20.0	12.3	13.6	18.8	15.5	21.3	23.2	16.2	14.9	12.9	7.7	5.9	—
	8	21.9	18.8	12.3	14.9	16.8	29.7	31.0	17.5	19.4	10.3	7.1	N	—
	9	13.6	13.6	14.9	15.5	11.0	23.9	14.9	12.9	12.3	9.0	6.5	7.1	—
	10	26.5	29.7	34.2	35.5	35.5	41.3	40.0	19.4	18.8	12.3	12.3	N	—
	11	25.2	25.2	21.9	31.0	21.9	25.8	44.6	18.8	16.2	8.4	5.9	7.7	—
	12	N	N	7.1	12.3	27.1	27.1	38.7	19.4	16.8	12.3	7.7	10.3	—
	13	16.8	14.9	14.2	13.6	16.8	12.3	27.8	12.9	9.7	7.7	5.2	3.9	—
	14	15.5	24.5	29.7	21.3	24.5	28.4	24.5	25.2	16.8	7.7	7.7	7.1	—
	15	24.5	24.5	17.5	23.2	22.6	36.8	25.2	17.5	9.7	7.7	8.4	N	—
	16	25.2	23.2	27.8	23.2	24.5	22.6	21.9	10.3	11.6	9.0	6.5	5.2	—
	17	12.3	11.0	11.6	10.3	14.2	23.9	23.9	13.6	9.0	5.2	3.3	14.2	—
	18	8.4	7.7	8.4	8.4	8.4	10.3	11.0	9.0	7.1	5.9	1.3	5.2	—
	19	8.4	8.4	7.7	9.0	7.7	11.0	12.3	9.7	5.9	5.2	4.6	5.2	—
	20	9.0	9.0	9.0	8.4	7.7	11.6	14.2	11.6	9.0	12.3	3.3	—	—
	21	—	—	—	—	—	—	—	12.9	9.7	4.6	6.5	5.9	—
	22	11.6	10.3	N	7.7	14.2	15.5	21.9	34.8	10.3	11.0	7.1	9.7	—
	23	14.9	14.2	11.6	15.5	14.9	13.6	31.0	23.9	11.6	10.3	7.1	—	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	—
	25	—	—	—	—	—	—	—	16.8	11.6	10.3	7.1	8.4	—
	26	17.5	16.8	16.8	17.5	26.5	20.0	21.9	24.5	11.0	7.7	7.1	3.9	—
	27	15.5	16.2	12.9	12.3	14.2	17.5	26.5	20.0	14.9	11.6	8.4	5.9	—
	28	20.6	18.1	14.2	13.6	13.6	19.4	31.7	19.4	14.2	7.7	7.7	6.5	—
	29	28.4	29.1	27.8	34.2	23.9	32.9	45.8	28.4	21.3	11.0	8.4	6.5	—
	30	—	—	—	—	—	25.2	41.3	19.4	20.0	11.6	5.9	6.5	—
Hourly Means.		17.6	17.3	16.5	17.3	18.0	21.5	26.9	19.7	13.8	9.3	6.0	5.7	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	P	38.7	1.3	1 3	— 1.3	10.3	18.1	15.5	17.5	16.8	17.5	23.2	15.6
	2	5.9	9.7	9.7	3.3	4.6	15.5	27.1	23.9	23.9	24.5	19.4	12.9	13.6
	3	3.3	0.7	4.6	— 0.6	6.5	11.0	18.8	16.2	16.8	20.6	15.5	12.9	11.9
	4	—12.9	3.3	—13.5	— 1.9	—15.5	8.4	9.7	12.3	14.9	19.4	18.1	16.8	8.6
	5	N	P	P	N	— 2.6	10.3	31.0	33.5	28.4	34.8	34.8	24.5	18.3
	6	9.0	6.5	7.1	6.5	2.6	11.6	18.1	30.4	26.5	22.6	20.0	17.5	20.7
	7	7.1	10.3	—22.6	10.3	13.6	16.2	23.2	26.5	24.5	24.5	20.0	26.5	15.1
	8	P	12.9	7.1	6.5	14.9	16.8	23.9	27.8	19.4	16.8	14.2	14.2	17.0
	9	5.2	5.9	4.6	5.2	9.7	18.8	24.5	30.4	32.3	28.4	32.3	25.8	15.8
	10	29.1	11.6	6.5	9.7	9.0	17.5	32.3	37.4	11.0	18.8	22.6	29.7	23.5
	11	6.5	7.7	5.9	3.9	3.3	12.9	—11.7	N	P	N	P	P	14.8
	12	3.9	9.0	N	P	N	15.5	20.6	23.9	21.9	21.9	27.8	18.8	18.0
	13	3.3	5.9	N	N	P	8.4	18.1	25.2	16.8	18.1	16.8	18.1	13.6
	14	9.7	11.6	N	N	40.0	20.6	18 8	23.9	21.9	22.6	23.2	21.3	20.3
	15	P	22.6	N	5.9	12.9	18.8	27.8	20.6	26.5	21.9	22.6	32.3	20.5
	16	13.6	8.4	9.7	9.7	8.4	11.0	18.8	20.0	18.1	15.5	14.2	12.9	15.5
	17	10.3	11.6	3.9	2.6	7.7	8.4	12.3	9.0	9.0	8.4	9.0	9.0	10.6
	18	— 1.3	—19.4	— 1.3	3.3	3.3	7.1	19.4	18.8	13.6	10.3	10.3	8.4	6.8
	19	—13.5	N	— 5.2	0.7	2.6	5.9	7.1	11.6	7.1	11.6	11.0	10.3	6.3
	20	—	—	—	—	—	—	—	—	—	—	—	—	9.6
	21	3.9	3.3	2.6	—14.2	12.9	12.9	23.2	N	P	9.0	12.9	9.0	7.7
	22	PN	PN	47.1	11.0	9.0	N	— 2.6	7.1	25.8	31.0	29.7	21.9	16.7
	23	—	—	—	—	—	—	—	—	—	—	—	—	15.3
	24	—	—	—	—	—	—	—	—	—	—	—	—	—
	25	7.7	7.1	8.4	7.7	38.1	16.2	18.8	23.9	29.7	27.1	17.5	18.1	16.1
	26	4.6	0.7	5.9	4.6	7.7	9.0	9.0	9.7	18.1	15.5	18.1	19.4	13.1
	27	4.6	5.2	5.2	2.6	5.2	8.4	14.9	— 1.3	19.4	21.3	20.6	23.2	12.7
	28	7.1	5.2	3.9	3.3	13.6	23.2	N	— 8.4	23.2	21.9	23.9	31.7	24.6
	29	7.1	5.9	5.2	7.1	—	—	—	—	—	—	—	—	20.2
	30	3.9	3.9	N	0.0	5.9	8.4	16.2	19.4	23.9	16.2	14.9	19.4	14.6
Hourly Means.		5.4	7.8	4.6	3.8	8.8	12.9	17.5	19.1	20.4	20.0	19.5	19.1	14.73

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY.	1	8.87	8.21	8.19	8.56	8.77	9.30	9.64	9.85	9.94	9.90	9.63	8.64	—
	2	8.80	8.61	8.62	8.39	8.46	8.82	9.40	9.55	9.60	9.30	8.73	8.04	—
	3	8.20	7.60	7.56	7.69	7.61	7.94	8.87	9.22	9.48	9.10	8.73	8.24	—
	4	8.60	8.20	8.11	7.96	8.12	8.87	9.35	9.61	9.85	9.72	9.65	9.21	—
	5	9.30	9.07	8.84	8.61	8.88	9.44	9.86	10.38	10.55	10.30	9.90	8.98	—
	6	9.19	8.60	8.45	7.96	8.05	8.42	9.00	9.27	9.52	9.45	9.06	8.49	—
	7	7.88	7.66	7.93	7.60	7.72	8.18	9.07	9.58	9.93	9.82	9.35	8.52	—
	8	8.83	8.60	8.36	8.32	8.22	8.57	8.98	9.38	9.60	9.78	9.55	8.73	—
	9	9.35	8.99	8.70	8.46	8.68	9.20	9.41	9.68	9.85	9.67	9.14	8.52	—
	10	8.20	7.87	7.86	8.13	8.16	8.68	9.00	9.44	9.86	9.68	9.30	8.75	—
	11	9.25	9.17	8.90	8.82	8.95	9.22	9.58	9.81	10.06	9.75	9.62	8.95	—
	12	8.31	8.06	8.30	8.31	8.59	8.86	9.56	10.23	10.42	9.93	8.78	8.53	—
	13	8.30	7.91	7.52	7.53	7.75	8.01	8.37	8.65	8.97	8.56	8.04	7.33	—
	14	8.24	7.89	7.47	7.52	7.99	8.15	8.79	9.34	9.45	9.01	8.43	7.68	—
	15	8.77	7.84	7.45	7.47	7.90	8.53	8.75	9.23	9.55	9.15	8.84	8.17	—
	16	8.61	8.17	8.00	7.91	8.03	8.16	8.61	9.03	9.39	9.43	8.99	8.09	—
	17	8.07	7.67	7.33	7.41	7.52	7.73	8.43	8.93	8.87	8.70	8.38	7.59	—
	18	7.85	7.22	7.45	7.21	7.57	7.97	8.35	8.85	8.85	8.60	8.05	7.40	—
	19	8.19	7.60	7.47	7.30	7.51	8.12	8.80	9.58	10.20	9.97	9.47	8.73	—
	20	8.79	8.41	7.97	7.99	8.30	8.71	9.03	9.51	9.54	9.40	8.94	8.09	—
	21	8.16	7.67	7.22	7.04	7.30	7.30	7.85	8.24	8.81	8.76	8.41	7.71	—
	22	7.67	7.27	6.98	6.83	6.98	7.30	7.55	8.20	8.37	8.37	7.90	7.35	—
	23	7.37	7.12	6.84	6.90	6.97	7.07	7.68	8.26	8.59	8.21	7.54	7.18	—
	24	9.01	8.42	8.29	8.26	8.21	8.32	8.79	9.63	9.86	9.53	9.43	9.18	—
	25	9.86	9.58	9.11	9.01	9.01	9.26	9.74	10.23	10.76	10.76	10.40	9.97	—
	26	8.87	8.50	8.22	8.15	8.28	8.60	9.06	9.35	9.36	9.01	8.89	8.38	—
	27	8.10	7.92	7.65	7.47	7.64	7.66	8.25	8.51	8.69	8.71	8.66	8.13	—
	28	8.85	8.11	8.07	7.95	8.32	8.80	9.01	9.48	9.49	9.48	9.17	8.50	—
	29	9.19	8.91	8.88	8.75	9.16	9.51	9.96	10.45	10.69	10.32	10.04	9.54	—
	30	9.51	9,30	9.12	9.33	9.82	9.97	10.39	11.09	11.38	11.10	10.74	10.03	—
	31	9.88	9.39	8.98	8.87	8.88	9.58	10.04	10.04	10.16	10.27	10.02	9.37	—
Hourly Means.		8.65	8.24	8.06	7.99	8.17	8.52	9.01	9.44	9.67	9.48	9.09	8.45	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MAY.	1	7.91	7.22	6.69	7.02	7.99	8.67	9.04	9.33	9.72	9.84	9.72	9.50	8.84
	2	7.42	6.68	6.28	6.53	6.62	7.06	7.32	7.69	8.58	8.51	8.55	8.64	8.18
	3	7.46	6.51	6.29	6.49	8.17	7.53	8.36	9.07	9.51	9.59	9.40	9.13	8.24
	4	8.57	7.89	7.58	7.50	7.90	8.68	8.95	9.47	9.70	9.73	9.75	9.79	8.87
	5	7.94	7.27	6.59	6.64	7.21	7.56	7.87	8.62	8.84	9.37	9.25	9.25	8.77
	6	7.58	7.01	6.48	6.44	7.72	8.42	8.51	8.62	9.31	9.12	8.54	8.27	8.40
	7	7.83	7.12	6.76	6.82	7.25	7.97	8.38	8.56	8.75	9.04	9.16	9.03	8.33
	8	8.17	7.36	7.03	7.38	7.81	8.47	8.66	9.20	9.58	9.77	9.73	9.70	8.74
	9	7.51	6.89	6.63	6.43	6.84	7.06	7.87	8.53	8.68	8.78	8.81	8.61	8.43
	10	7.96	7.44	7.18	7.38	7.51	8.03	8.71	8.89	9.63	9.62	9.64	9.50	8.60
	11	8.39	7.86	7.19	7.12	7.19	7.34	7.79	8.53	8.83	8.96	9.14	8.90	8.72
	12	7.93	7.38	7.03	7.58	7.95	8.37	8.69	9.02	9.29	9.69	9.45	8.98	8.72
	13	6.83	6.18	5.79	5.84	6.38	6.84	7.23	7.74	8.73	8.91	8.76	8.52	7.70
	14	7.34	6.86	6.46	6.29	7.11	7.34	8.27	8.63	9.08	9.43	9.35	9.00	8.13
	15	7.47	7.33	6.73	6.82	7.14	7.60	7.94	8.67	9.00	9.01	9.02	8.95	8.22
	16	7.60	7.24	7.07	7.10	7.76	7.78	8.21	8.56	9.19	9.11	8.92	8.69	8.32
	17	6.79	6.19	5.82	5.84	6.12	6.67	7.22	8.03	8.43	8.88	8.89	8.05	7.65
	18	6.79	6.43	6.07	6.12	6.41	6.99	7.50	8.40	8.73	9.00	8.78	8.68	7.72
	19	8.28	7.38	7.15	7.00	6.95	7.38	7.88	8.81	9.29	9.32	9.24	9.19	8.37
	20	7.27	6.33	6.09	7.18	7.34	7.50	8.25	8.52	9.09	9.53	9.49	9.06	8.35
	21	7.18	6.72	6.84	6.95	7.30	7.82	8.56	8.50	8.46	8.83	8.43	8.13	7.84
	22	6.75	6.20	5.60	5.54	6.08	6.63	7.04	7.47	8.00	8.37	8.40	7.92	7.28
	23	6.75	6.43	6.19	6.61	6.92	7.52	8.05	8.64	9.13	9.38	9.25	9.00	7.65
	24	8.85	8.48	8.66	8.25	8.80	9.15	9.59	10.13	10.50	10.46	10.29	9.90	9.17
	25	9.19	8.67	8.53	8.32	8.52	8.67	9.23	9.52	9.60	9.54	9.38	9.32	9.42
	26	7.79	7.03	6.57	6.19	6.52	7.09	7.47	7.96	8.41	8.59	8.35	8.27	8.12
	27	7.45	6.54	5.99	6.18	6.63	7.42	7.88	8.68	9.09	9.37	9.33	9.12	7.96
	28	7.65	7.38	7.07	7.20	7.39	8.23	8.74	9.22	9.95	9.94	9.78	9.50	8.64
	29	8.71	8.18	8.20	8.86	9.32	9.78	10.22	10.44	10.76	10.79	10.56	9.99	9.63
	30	9.62	9.00	8.89	9.00	9.14	9.34	9.78	10.47	10.78	10.87	10.70	10.33	9.99
	31	8.54	8.04	7.63	7.81	8.10	8.45	8.96	9.45	9.88	10.23	9.93	9.80	9.26
Hourly Means.		7.79	7.20	6.87	6.98	7.42	7.85	8.33	8.82	9.24	9.41	9.29	9.06	8.46

STANDARD THERMOMETER.

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	76.8	76.2	76.0	75.5	75.1	75 0	75.2	78.0	80.8	82.8	83.2	86.1	—
2	75.2	75.2	75.0	74.7	74.6	74.2	75.1	77.9	80.0	83.0	84.1	85.7	—
3	77.5	77.3	77.1	76.5	76.1	75.4	75.2	76.1	79.1	82.1	83.6	84.7	—
4	73.5	73.3	73.0	73.0	73.0	72.8	73.0	74.5	77.5	81.2	83.3	83.6	—
5	75.5	75.0	74.8	74.4	73.8	73.7	74.1	76.2	80.0	82.0	83.6	84.5	—
6	77.8	77.5	76.2	75.5	75.0	74.8	75.0	78.0	82.2	84.2	86.0	84.0	—
7	73.5	73.0	73.0	72.8	72.5	72.1	73.1	75.0	78.0	81.0	83.3	84.2	—
8	74.3	74.1	74.0	74.0	74.2	74.0	74.6	77.0	79.0	81.5	82.9	84.6	—
9	75.3	75.0	74.9	74.5	74.0	74.0	74.2	76.0	79.0	81.5	83.0	85.0	—
10	75.3	74.7	74.2	73.7	73.3	73.2	73.7	75.8	78.3	82.0	84.0	84.3	—
11	75.1	74.8	74.5	74.1	73.8	73.5	74.0	75.3	78.0	81.8	83.7	84.5	—
12	76.5	76.3	75.9	75.7	75.1	74.5	75.1	77.1	79.0	80.5	82.5	83.2	—
13	74.2	74.0	74.0	73.8	73.4	73.1	73.6	76.5	78.6	81.5	83.5	84.7	—
14	75.4	75.4	75.2	75.2	75.0	75.1	75.1	75.8	77.3	79.8	83.8	84.7	—
15	75.6	75.6	75.4	75.0	74.3	73.5	74.4	76.9	79.2	81.6	84.2	85.7	—
16	75.4	75.2	75.0	74.7	74.0	73.8	74.7	77.0	80.2	82.3	83.5	84.5	—
17	74.6	74.0	73.6	73.6	73.5	73.1	73.9	75.5	80.0	82.0	84.2	85.2	—
18	76.6	76.0	76.0	75.8	75.3	75.5	76.4	78.0	80.4	83.1	84.3	86.0	—
19	76.7	76.5	76.3	76.1	75.7	75.9	76.1	77.1	77.0	78.0	79.0	81.1	—
20	75.8	75.2	75 0	74.6	74.2	74.0	74.4	77.0	80.0	83.7	84.3	85.5	—
21	75.2	75.0	75.0	75.0	74.8	74.8	75.0	76.5	78.0	79.5	81.5	82.8	—
22	74.0	73.8	73.6	73.4	73.4	73.2	74.0	76.0	77.0	78.8	80.0	81.0	—
23	76.4	76.1	75.7	75.3	75.3	75.1	76.3	79.0	80.6	82.3	85.0	85.9	—
24	76.4	76.0	76.0	75.8	75.4	75.1	75.3	75.7	76.2	77.9	80.8	82.2	—
25	74.7	74.7	74.7	74.5	74.0	74.0	74.3	75.5	76.6	78.4	81.6	83.4	—
26	75.2	74.8	74.0	73.6	73.2	72.8	73.6	76.1	79.6	82.2	83.5	85.0	—
27	76.5	75.9	75.4	75.0	74.4	73.5	73.7	75.5	78.9	80.9	82.7	84.0	—
28	75.2	75.0	74.4	74.2	74.0	73.5	73.7	75.6	77.4	78.9	81.2	82.3	—
29	74.8	74.2	74.0	73.8	73.3	73.5	73.8	75.8	78.5	80.0	82.0	82.8	—
30	73.0	72.6	72.4	72.2	72.2	72.0	72.4	74.4	77.4	80.3	81.0	81.1	—
31	75.2	75.0	74.2	73.5	73.0	73.1	73.0	75.8	79.0	81.0	83.0	83.5	—
Hourly Means.	75.39	75.08	74.79	74.50	74.16	73.93	74.39	76.34	78.80	81.15	82.98	84.06	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	86.5	86.5	85.5	85.0	83.2	78.9	78.0	77.3	76.7	76.1	76.1	75.7	79.43
2	85.5	86.0	86.0	83.2	82.7	82.5	82.0	80.4	79.3	79.0	78.2	77.7	79.88
3	86.2	86.4	86.0	85.0	75.0	74.0	74.0	74.2	74.0	73.6	73.5	73.7	78.18
4	83.5	84.2	82.6	81.9	81.7	80.6	79.5	78.4	78.0	77.5	77.0	76.4	78.04
5	85.6	86.6	86.7	85.4	83.8	82.5	81.1	80.5	79.5	78.6	78.5	78.0	79.77
6	85.5	85.6	85.0	84.8	81.5	75.2	74.5	74.7	74.8	74.4	74.0	73.4	78.73
7	84.0	83.3	83.2	82.5	81.5	78.0	75.7	75.7	75.0	74.5	74.5	74.5	77.25
8	85.0	85.0	85.0	84.0	81.5	78.5	77.3	77.0	76.2	76.0	75.8	75.4	78.37
9	86.0	87.1	85.5	84.6	83.1	82.1	80.5	79.1	78.6	77.9	77.0	76.1	79.33
10	85.0	85.2	84.2	83.0	82.2	80.1	78.8	78.0	77.1	76.6	76.5	75.6	78.53
11	85 1	85.3	85.0	84.4	83.3	82.0	80.8	80.0	79.0	78.8	78.2	77.1	79.25
12	83.2	83.2	80.2	79.6	77.0	76.2	75.7	75.3	75.3	75.0	74.7	74.2	77.54
13	86.5	86.9	85.6	85.0	83.8	80.2	79.0	79.0	78.3	76.2	75.0	75.2	78.82
14	85.3	84.4	84.9	84.5	83.6	82.6	80.2	78.0	77.5	77.0	76.6	76.5	79.12
15	85.0	81.1	80.2	80.0	79.8	78.8	77.6	77.1	76,5	76.5	76.0	75.6	78.15
16	84.1	82.7	80.8	79.4	79.0	77.0	76.2	76.0	76.0	75.7	75.0	75.0	77.80
17	85.6	86.0	85.4	84.5	83.5	82.7	82.2	81.5	79.3	77.4	76.5	76.6	79.35
18	86.0	86.2	86.7	85.0	84.0	83.0	81.6	81.1	80.0	79.0	78.0	77.1	80.46
19	81.7	82.8	82.6	83.2	82.6	81.0	80.1	79.0	78.0	77.5	76.7	76.1	78.62
20	87.7	87.4	85.8	75.0	75.0	75.3	75.4	75.0	75.0	75.2	75.2	75.2	77.95
21	82.9	81.9	78.0	76.3	76.0	74.6	74.2	73.9	73.5	73.9	73.9	74.0	76.51
22	81.5	83.0	83.5	82.8	82.0	79.0	78.4	78.0	77.6	77.0	76.7	76.7	77.68
23	86.0	85.5	85.2	83.0	81.9	81.0	79.4	78.8	77.8	77.2	77.0	76.8	79.69
24	82.8	83.0	77.3	77.1	78.3	77.5	76.1	75.5	75.1	75.1	75.1	74.9	77.11
25	84.7	86.2	85.3	84.0	81.6	79.1	78 4	77.5	77.0	76.4	76.0	75.6	78.26
26	85.5	85.6	85.4	84.4	83.6	81.7	79.9	79.4	79.0	78.5	78.0	77.4	79.25
27	84.7	85.1	85.8	85.0	83.7	82.0	80.9	79.5	78.0	76.8	76.4	76.0	79.18
28	82.7	83.1	83.7	83.1	82.3	80.0	7.85	77.2	77.0	76.5	75.8	75.1	77.93
29	83.3	83.3	83.8	77.2	76.5	76.4	75.8	75.0	74.2	74.0	73.8	73.4	76.80
30	81.3	81.1	81.0	80.7	80.1	79.1	78.4	77.7	76.7	76.3	76.0	75.6	76.88
31	84.7	84.3	83.1	83.2	82.2	81.0	79.3	78.6	77.5	75.4	75.2	75.0	78.28
Hourly Means.	84.62	84.65	83.84	82.48	81.16	79.44	78.37	77.69	77.02	76.44	76.03	75.66	78.46

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

MAY. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	932	948	940	948	956	947	939	861	783	753	740	695	—
2	939	947	947	956	956	965	930	884	818	746	688	672	—
3	900	924	924	924	923	931	930	915	839	744	727	710	—
4	965	965	973	964	955	964	964	965	907	798	719	754	—
5	931	947	947	956	956	956	947	915	849	785	720	689	—
6	917	892	881	880	879	897	905	821	737	722	683	762	—
7	929	937	937	937	936	955	955	913	868	790	740	688	—
8	956	956	956	965	965	965	965	924	863	771	781	709	—
9	930	930	913	921	930	930	930	881	823	770	746	717	—
10	905	913	913	912	894	894	861	848	814	764	721	716	—
11	922	913	913	912	921	929	912	905	852	757	706	723	—
12	932	932	931	940	930	922	914	876	854	826	759	747	—
13	965	956	956	965	965	964	965	891	808	757	699	665	—
14	948	957	957	922	956	966	956	905	875	848	693	716	—
15	898	872	880	888	904	929	930	858	779	742	688	647	—
16	940	931	939	956	956	956	956	883	804	730	699	702	—
17	965	973	973	973	965	964	938	898	885	729	694	667	—
18	932	940	931	931	939	939	932	868	796	712	688	649	—
19	924	924	923	915	940	931	940	883	900	868	816	813	—
20	940	947	956	956	956	947	930	891	834	741	708	679	—
21	966	965	965	965	965	956	957	916	837	786	763	717	—
22	965	973	973	973	965	965	956	906	891	854	863	790	—
23	899	906	898	914	914	905	890	831	804	751	690	681	—
24	957	957	957	957	966	974	974	974	974	917	865	807	—
25	947	947	939	947	965	956	956	940	916	853	770	705	—
26	922	930	938	938	938	937	929	899	817	723	720	677	—
27	948	940	939	947	921	929	929	889	838	819	723	687	—
28	871	871	887	904	912	920	929	898	843	793	733	729	—
29	939	930	921	929	946	938	921	898	837	802	742	752	—
30	955	964	964	946	946	946	955	930	852	760	733	740	—
31	947	947	956	938	946	955	955	898	823	755	697	692	—
Hourly Means.	935	937	936	938	941	943	937	896	843	780	733	713	—

MAY. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	677	645	672	690	738	830	860	883	915	931	931	931	839
2	667	649	630	739	773	779	792	834	886	878	893	917	829
3	668	677	681	703	879	920	938	939	938	938	947	956	857
4	761	715	773	800	807	842	894	926	942	933	948	923	882
5	680	670	651	691	741	772	836	842	870	901	918	933	838
6	686	712	717	716	733	904	947	947	947	947	956	946	839
7	714	754	761	794	814	814	914	931	930	930	947	947	868
8	684	684	709	734	776	814	859	875	915	915	915	931	858
9	675	635	699	737	775	758	811	854	877	900	924	915	833
10	659	672	688	711	764	825	878	893	924	916	924	931	831
11	639	634	638	675	725	785	826	855	878	893	901	916	822
12	768	754	788	809	907	923	923	931	914	922	965	965	881
13	657	671	686	710	726	825	902	902	877	849	905	922	841
14	711	743	690	669	699	752	856	892	867	891	906	899	845
15	703	850	818	803	795	838	876	900	916	916	923	931	845
16	708	773	827	863	878	907	931	923	923	931	956	956	876
17	692	681	686	716	748	780	808	828	886	907	932	932	843
18	649	669	671	703	741	780	821	827	864	886	925	924	822
19	799	731	731	725	731	783	825	878	908	925	932	948	862
20	612	635	706	939	956	947	957	947	956	966	966	974	877
21	724	785	829	924	923	947	947	947	956	965	973	965	902
22	763	738	754	788	792	823	877	868	907	916	891	882	878
23	655	679	685	780	813	857	926	933	950	958	949	949	842
24	780	774	900	891	893	941	948	947	947	947	939	947	922
25	664	649	685	762	784	815	861	883	899	906	898	905	856
26	647	653	678	708	733	784	863	886	902	917	925	941	834
27	637	639	636	659	639	700	702	756	805	833	849	856	801
28	752	753	734	739	758	833	830	867	843	866	898	939	838
29	677	677	693	875	890	873	881	888	912	921	929	946	863
30	741	776	761	804	818	870	893	917	932	932	931	948	876
31	670	682	691	712	736	790	847	877	883	897	914	904	838
Hourly Means.	694	702	718	760	790	833	872	890	905	914	926	932	853

DIRECTION OF THE WIND.

MAY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	C	C	C	NNE	NNE	ENE	ESE	NE	NNE
2	C	C	C	C	C	C	WSW	C	WSW	NNW	NW	NNW
3	C	C	C	C	C	C	C	E	ESE	SE	S	E
4	C	C	C	C	C	C	C	C	NW	ENE	E	NNE
5	C	C	C	C	C	C	N	N	N	N	N	NW
6	N	ESE	ESE	ESE	ESE	C	ESE	ESE	SE	E	ENE	NE
7	C	C	C	C	C	C	C	C	WSW	WNW	NE	NNE
8	C	C	C	C	C	C	SW	SW	WSW	N	N	NE
9	C	C	C	C	C	C	SE	SE	W	WSW	SW	WNW
10	NW	C	C	C	C	NW	NW	WSW	WSW	SSW	E	NE
11	NW	NW	NW	NW	C	C	NW	NW	NW	SE	ESE	ENE
12	N	C	N	C	N	C	N	NE	ESE	SSE	SW	SSW
13	C	SSW	C	C	C	C	SSW	WSW	WSW	E	SE	ENE
14	C	C	S	C	C	S	S	SSW	SSW	E	SE	ENE
15	S	S	S	C	C	C	S	SSW	SSW	S	E	NE
16	NE	C	C	C	C	NE	NE	ENE	S	SSE	E	E
17	C	WSW	WSW	C	C	C	C	WSW	SW	ESE	E	ENE
18	SSW	SSW	SSW	SSW	SSW	C	SSW	SSW	SSW	SSW	SSW	ESE
19	S	SSW	SSW	SSW	SSW	SSW	SSW	E	NE	NE	ENE	E
20	C	SE	C	C	C	SE	SE	SSE	S	E	ENE	ESE
21	C	C	WSW	C	C	C	WSW	WSW	WSW	WSW	WSW	N
22	C	C	C	C	C	C	SSE	SSE	SSE	S	S	S
23	SE	SE	SE	SE	SE	SE	SE	ESE	SE	ESE	ESE	E
24	E	E	C	C	E	E	C	C	E	E	E	ENE
25	C	C	NNW	C	C	C	NNW	NNW	NNW	NNW	WNW	WNW
26	C	C	C	C	C	C	C	NNW	NNW	E	E	NNE
27	N	C	C	C	C	C	N	C	N	N	W	WNW
28	W	W	W	W	C	C	W	C	W	W	W	WNW
29	C	C	C	C	S	C	C	WSW	WNW	NW	NW	NNE
30	C	C	C	C	C	C	C	SE	SSE	ESE	E	ESE
31	C	C	C	NE	NE	C	NE	NE	ESE	SSE	ENE	NE

MAY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NE	NE	NNE	NNE	WSW	SW	WSW	WSW	WSW	WSW	C	C
2	N	NE	N	S	SSE	ENE	ENE	ENE	ENE	ENE	C	C
3	N	NNE	NNE	NNW	W	NW	C	NW	C	C	C	C
4	NE	NNE	NNE	NNE	N	C	C	C	C	C	N	N
5	NNE	NNW	NNE	NNE	N	N	N	N	C	C	N	C
6	NNE	NNE	NNE	N	SSW	SE	SE	SE	C	SE	S	S
7	NNE	NNE	NNE	NNE	N	SW	SW	SW	SW	C	C	C
8	NNE	NE	NNE	N	WSW	SSE	SE	SE	SE	SE	C	C
9	WNW	NW	N	N	NNW	NNW	NW	C	C	C	C	NW
10	NNE	NNE	N	NNW	NNW	C	C	C	C	C	C	NW
11	NNE	N	N	N	N	N	C	N	C	C	C	C
12	E	ENE	WNW	SSW	SSW	SSW	C	C	C	C	SSW	C
13	NE	NE	NNE	NE	NNE	NNW	NNW	NNW	N	SSW	S	S
14	NE	NE	NNE	NE	NNE	NNW	NNW	NNW	N	S	S	S
15	NE	NE	NE	ENE	NE	C	NE	NE	NE	NE	NE	C
16	NNE	NE	NNW	NW	W	WSW	WSW	WSW	WSW	WSW	WSW	C
17	NNE	NNE	NNE	NNE	NE	NE	NE	E	S	SSW	SSW	SSW
18	E	NE	NE	E	E	E	E	E	C	E	E	E
19	SE	ESE	ESE	ESE	SE	SE	SE	SE	SE	C	C	C
20	SE	E	NE	SW	WSW	WSW	WSW	WSW	C	C	WSW	WSW
21	N	NNE	ESE	ESE	SSE	SSW	S	SSE	SSE	C	C	SSE
22	E	ENE	E	NE	ESE	SSE	SSE	C	C	SSE	SSE	SSE
23	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	C	C
24	NE	NE	NNE	N	N	N	NNW	NNW	NNW	NNW	C	C
25	NNW	NNW	N	N	NNW	NW	NW	NW	C	NW	NW	NW
26	NNE	NE	NNE	N	N	N	C	C	C	C	C	N
27	WSW	NW	W	NW	WNW	WNW	WNW	WNW	WNW	W	W	W
28	WNW	NW	NW	NW	NW	WSW	WSW	SW	S	S	C	C
29	NNE	NNW	WSW	SSW	SSE	SE	SE	SE	SE	SE	C	C
30	E	C	ENE	NE	NE	C	C	C	C	C	C	C
31	NE	NE	NNE	NNE	N	C	C	C	NE	NE	NE	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

MAY. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	2.4	4.8	4.8	—
2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.4	3.2	4.8	6.4	—
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	3.2	5.6	—
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.8	7.2	7.2	—
5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	2.4	1.6	1.6	2.4	—
6	3.2	3.2	2.4	0.8	0.8	0.0	0.8	3.2	6.4	6.4	8.9	9.7	—
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.0	7.2	9.7	—
8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	3.2	6.4	9.7	—
9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	5.6	5.6	6.4	4.8	—
10	0.8	0.0	0.0	0.0	0.0	0.8	2.4	1.6	2.4	5.6	8.9	11.3	—
11	0.8	1.6	0.8	0.8	0.0	0.0	1.6	0.8	3.2	6.4	8.0	9.7	—
12	0.8	0.0	0.8	0.0	0.8	0.0	0.8	4.8	8.0	6.4	4.0	4.8	—
13	0.0	0.8	0.0	0.0	0.0	0.0	1.6	1.6	2.4	5.6	5.6	6.4	—
14	0.0	0.0	0.8	0.0	0.0	0.8	0.8	3.2	3.2	4.8	6.4	8.0	—
15	6.4	4.8	0.8	0.0	0.0	0.0	0.8	2.4	4.8	5.6	6.4	8.0	—
16	0.8	0.0	0.0	0.0	0.0	0.8	1.6	1.6	4.8	4.8	4.8	5.6	—
17	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.8	4.8	4.8	6.4	9.7	—
18	1.6	0.8	0.8	0.8	0.8	0.0	1.6	0.8	5.6	4.8	6.4	8.9	—
19	4.8	1.6	2.4	2.4	0.8	0.8	0.8	8.0	10.5	9.7	9.7	9.7	—
20	0.0	0.8	0.0	0.0	0.0	2.4	2.4	0.8	2.4	8.0	9.7	10.5	—
21	0.0	0.0	0.8	0.0	0.0	0.0	1.6	2.4	1.6	0.8	1.6	3.2	—
22	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	3.2	1.6	4.0	—
23	2.4	2.4	2.4	1.6	2.4	4.0	4.8	6.4	12.1	13.7	14.5	14.5	—
24	0.8	0.8	0.0	0.0	0.8	0.8	0.0	0.0	1.6	2.4	5.6	6.4	—
25	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.8	0.8	1.6	3.2	4.8	—
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.4	4.8	4.0	5.6	—
27	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	3.2	4.0	6.4	—
28	3.2	3.2	3.2	0.8	0.0	0.0	1.6	0.0	2.4	3.2	3.2	3.2	—
29	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.6	3.2	3.2	3.2	6.4	—
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	4.0	2.4	—
31	0.0	0.0	0.0	0.8	0.8	0.0	0.8	1.6	3.2	3.2	5.6	6.4	—
Hourly Means.	0.85	0.67	0.54	0.26	0.26	0.34	0.98	1.75	3.52	4.57	5.72	6.97	—

MAY. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.9	10.5	10.5	8.9	7.2	1.6	1.6	0.8	0.8	1.6	0.0	0.0	2.88
2	8.0	9.7	8.9	6.4	2.4	0.8	0.8	0.8	0.8	0.8	0.0	0.0	2.38
3	8.9	12.1	12.9	10.5	11.3	1.6	0.0	0.8	0.0	0.0	0.0	0.0	2.95
4	8.9	11.3	6.4	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.31
5	5.6	6.4	9.7	9.7	6.4	2.4	0.8	0.8	0.0	0.0	0.8	0.0	2.28
6	14.5	14.5	12.1	7.2	12.1	8.0	2.4	0.8	0.0	2.4	2.4	0.8	5.13
7	10.5	9.7	4.8	4.8	4.8	4.0	1.6	1.6	1.6	0.0	0.0	0.0	2.78
8	9.7	10.5	11.3	8.0	6.4	8.0	0.8	0.8	1.6	0.8	0.0	0.0	3.35
9	5.6	7.2	7.2	5.6	2.4	2.4	0.8	0.0	0.0	0.0	0.0	0.8	2.40
10	12.9	9.7	7.2	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.98
11	8.9	8.9	8.0	6.4	4.0	0.8	0.0	0.8	0.0	0.0	0.0	0.0	2.98
12	5.6	4.8	3.2	6.4	1.6	0.8	0.0	0.0	0.0	0.0	0.8	0.0	2.27
13	8.9	10.5	11.3	12.1	5.6	2.4	0.8	0.8	7.2	10.5	2.4	0.8	4.05
14	11.3	11.3	12.9	14.5	7.2	3.2	8.0	6.4	0.8	0.8	1.6	1.6	4.48
15	10.5	14.5	14.5	8.9	4.0	0.0	0.8	0.8	1.6	0.8	0.8	0.0	4.05
16	12.1	12.1	8.9	4.8	4.0	3.2	3.2	0.8	0.8	0.8	1.6	0.0	3.21
17	11.3	12.1	13.7	14.5	11.3	7.2	7.2	5.6	5.6	8.9	8.0	3.2	5.70
18	8.9	12.9	9.7	8.9	5.6	1.6	0.8	0.8	0.0	0.8	1.6	3.2	3.65
19	11.3	15.3	12.1	12.1	4.8	2.4	0.8	0.8	0.8	0.0	0.0	0.0	5.07
20	12.9	13.7	9.7	12.1	3.2	1.6	0.8	0.8	0.0	0.0	0.8	1.6	3.93
21	7.2	10.5	8.9	2.4	8.0	5.6	4.8	1.6	0.8	0.0	0.0	0.8	2.61
22	10.5	8.0	8.9	4.8	4.8	3.2	0.8	0.0	0.0	0.8	3.2	4.8	2.54
23	12.9	12.1	13.7	12.1	8.0	2.4	0.8	0.8	0.8	0.8	0.0	0.0	6.07
24	12.1	16.1	14.5	3.2	1.6	1.6	2.4	1.6	2.4	0.8	0.0	0.0	3.15
25	4.8	5.6	8.0	6.4	1.6	1.6	0.8	0.8	0.0	0.8	0.8	0.8	1.87
26	8.9	9.7	9.7	8.0	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.8	2.58
27	7.2	8.0	8.0	6.4	4.8	2.4	1.6	1.6	1.6	1.6	1.6	2.4	2.63
28	1.6	3.2	4.8	3.2	1.6	0.8	2.4	6.4	3.2	0.8	0.0	0.0	2.17
29	9.7	8.9	8.0	4.0	5.6	8.0	8.0	6.4	4.0	0.8	0.0	0.0	3.41
30	3.2	4.0	7.2	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40
31	10.5	10.5	10.5	8.0	4.0	0.0	0.0	0.0	2.4	3.2	1.6	0.0	3.05
Hourly Means.	9.15	10.14	9.59	7.55	4.99	2.55	1.70	1.39	1.19	1.22	0.93	0.80	3.23

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

MAY.

Mean Batavia Time.	1 A M.	2	3	4	5	6	7	8	9	10	11	12	—
1	6	4	2	1	1	2	4	6	4	7	7	5	—
2	6	9	7	7	4	5	3	1	1	3	6	7	—
3	10	5	6	6	3	3	10	10	6	7	7	10	—
4	3	4	3	2	3	5	6	3	4	3	4	8	—
5	5	6	6	9	9	9	4	3	3	6	5	6	—
6	10	10	9	5	1	2	4	5	3	5	7	9	—
7	6	5	4	6	6	5	8	7	4	4	6	5	—
8	7	6	6	10	10	10	6	5	3	2	6	4	—
9	9	9	9	6	6	7	10	10	9	7	6	6	—
10	9	10	9	6	3	4	4	7	6	5	7	6	—
11	6	7	8	9	9	9	10	9	9	7	7	7	—
12	4	8	9	6	8	6	8	9	9	7	9	8	—
13	10	8	9	8	10	10	4	3	2	1	0	2	—
14	9	8	3	3	9	9	10	10	10	8	4	3	—
15	5	6	7	7	7	6	2	1	2	2	4	6	—
16	3	2	2	2	2	3	10	6	9	8	7	9	—
17	7	6	5	6	7	6	3	4	2	3	5	4	—
18	10	7	9	6	7	10	9	7	3	3	5	9	—
19	6	10	10	9	8	10	10	10	10	10	9	10	—
20	5	6	3	3	6	6	2	1	1	6	8	4	—
21	9	9	8	9	9	8	9	9	8	9	9	9	—
22	8	6	5	5	4	9	6	3	10	10	10	10	—
23	9	9	7	9	4	3	3	7	6	8	3	3	—
24	7	7	10	10	10	10	10	10	10	10	9	10	—
25	10	10	10	7	9	10	8	9	9	9	6	3	—
26	1	1	1	1	1	3	6	6	3	5	5	6	—
27	1	1	2	2	3	3	5	4	4	4	5	7	—
28	6	6	8	9	8	9	9	9	9	8	9	9	—
29	4	2	3	4	4	8	9	8	8	7	7	7	—
30	7	7	8	5	3	6	3	2	2	3	9	9	—
31	1	1	1	1	1	2	6	6	7	9	8	7	—
Hourly Means.	6.4	6.3	6.1	5.8	5.6	6.4	6.5	6.1	5.7	6.0	6.4	6.7	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	3	3	2	2	10	10	10	5	7	6	6	7	5.0
2	7	7	5	9	5	6	8	3	4	1	1	7	5.1
3	6	3	4	9	10	9	9	7	7	5	5	6	6.8
4	7	5	10	10	10	7	1	1	1	3	3	3	4.5
5	4	4	3	2	3	3	7	7	6	10	8	9	5.7
6	2	2	3	3	10	10	10	10	10	9	10	9	6.6
7	9	7	7	7	9	10	10	10	10	10	7	9	7.1
8	4	3	3	4	7	9	7	7	9	10	10	7	6.5
9	3	6	7	6	6	6	1	1	1	1	1	1	5.6
10	5	7	6	7	6	5	3	4	3	6	6	5	5.8
11	3	1	2	2	3	4	3	3	5	4	2	3	5.5
12	9	9	9	10	10	10	10	10	10	10	6	8	8.4
13	3	4	2	3	5	9	10	9	10	10	10	9	6.3
14	3	2	2	1	0	6	9	9	9	10	7	2	6.1
15	10	10	10	10	9	10	7	6	7	6	7	7	6.4
16	8	8	9	10	10	10	10	10	10	9	8	8	7.2
17	7	7	3	5	5	7	8	10	9	10	10	10	6.2
18	9	8	8	8	9	8	7	7	9	7	5	7	7.4
19	9	8	9	7	8	7	7	5	2	1	1	1	7.4
20	4	6	8	10	10	10	5	3	4	8	10	9	5.8
21	8	10	10	10	10	10	10	10	10	10	10	10	9.3
22	10	9	7	7	9	9	6	9	9	8	7	7	7.6
23	7	6	7	10	10	10	10	10	9	9	7	7	7.2
24	8	6	10	9	9	10	8	9	9	6	8	8	8.9
25	5	6	7	9	8	8	7	4	2	1	1	1	6.6
26	1	1	1	2	3	10	6	6	7	4	4	2	3.6
27	7	7	6	7	9	9	6	3	3	3	2	3	4.4
28	10	10	9	9	9	6	7	9	9	9	7	8	8.4
29	7	8	8	10	9	9	10	10	10	10	10	5	7.4
30	9	10	10	10	10	10	8	6	3	5	6	7	6.6
31	6	6	6	7	7	8	5	7	8	8	9	8	5.6
Hourly Means.	6.2	6.1	6.2	6.9	7.7	8.2	7.3	6.8	6.8	6.7	6.3	6.2	6.48

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — = POSITIVE, NEGATIVE OUT OF SCALE.

MAY.	Mean Batavia Time.	1					6	7	8	9	10	11	12	—
			18.1	23.[illegible]	.2	16.2	20.6		14.2	10.3	9.7	4.6	4.6	3.9	—
			12.3	[illegible]	14.9	16.2	14.9		26.5	18.8	12.9	7.1	3.9	2.0	—
			13.6	[illegible]	12.9	15.5	17.5		13.6	12.3	11.0	6.5	5.2	3.3	—
			—		—	—	34.2	30.	34.2	27.1	20.0	7.1	—	—	—
		5	9[illegible]	12.6	19.4	15.5	17.5	16.2	18.8	14.9	— 9.7	6.5	4.6	5.2	—
		6		5.2	5.2	5.9	8.4	11.6	21.3	10.3	5.2	4.6	3.3	N	—
		7		20.0	14.9	15.5	12.9	15.5	32.9	16.8	11.6	6.5	4.6	5.2	—
			5.8	20.6	20.0	16.2	30.4	29.7	23.2	11.6	9.0	5.2	4.6	5.9	—
			17.5	10.3	11.0	9.0	9.7	14.9	14.2	11.6	7.7	5.9	5.2	5.2	—
			14.2	15.5	14.9	16.2	9.7	12.9	18.1	13.6	10.3	7.1	5.2	5.2	—
		11	11.0	12.3	11.0	11.0	16.2	—	20.6	20.0	13.6	6.5	5.9	4.6	—
		12	15.5	17.5	11.0	8.4	10.3	11.0	23.2	8.4	11.0	5.9	4.6	4.6	—
		13	21.9	16.2	16.2	16.8	15.5	21.9	27.1	18.1	9.0	7.1	6.5	5.2	—
		14	9.7	12.9	11.6	12.3	13.6	14.2	10.3	11.0	9.7	9.7	4.6	5.9	—
		15	9.7	5.9	7.7	13.6	16.8	22.6	27.8	16.8	9.0	7.1	5.2	3.9	—
		16	16.8	16.8	21.3	16.8	26.5	26.5	28.4	12.9	9.7	8.4	5.9	5.9	—
		17	21.9	27.8	23.2	14.9	14.9	27.8	30.4	22.6	11.0	5.2	3.9	4.6	—
		18	— 2.6	7.1	9.0	11.6	10.3	13.6	13.6	10.3	5.9	5.2	3.9	2.6	—
		19	7.7	10.3	7.7	9.7	14.2	29.7	18.8	12.9	18.8	12.3	6.5	4.6	—
		20	16.8	17.5	19.4	16.8	17.5	—	—	8.4	7.1	3.9	3.3	2.6	—
		21	9.7	10.3	12.9	11.0	11.6	13.6	27.8	16.2	13.6	8.4	7.1	5.9	—
			11.6	13.6	11.6	14.9	16.2	14.2	21.3	13.6	12.3	11.0	8.4	7.1	—
			11.0	9.0	—	—	—	15.5	21.3	11.6	9.0	7.1	6.5	5.2	—
		24	18.1	15.5	18.8	19.4	N	P	0.0	23.2	25.2	16.8	—	—	—
		25	—	—	—	—	—	—	—	17.5	14.2	10.3	5.9	5.2	—
		26	27.8	20.0	23.9	30.4	27.1	21.9	21.9	18.1	7.7	5.9	4.6	3.3	—
		27	20.6	19.4	22.6	26.5	19.4	16.2	15.5	16.2	11.0	10.3	5.9	6.5	—
		28	7.7	9.7	8.4	7.7	9.0	12.9	12.9	12.9	9.0	7.1	7.1	6.5	—
		29	20.6	20.6	20.0	18.1	12.9	17.5	12.9	14.9	10.3	6.5	4.6	5.2	—
		30	25.2	16.2	27.1	25.8	25.8	21.9	26.5	17.5	11.6	5.9	6.5	5.9	—
		31	22.6	20.6	23.9	24.5	29.7	27.8	32.3	15.5	12.3	4.6	4.6	5.2	—
	Hourly Means.		15.7	15.4	15.5	15.6	17.3	19.3	21.0	15.0	10.6	7.3	5.3	4.9	—

MAY.	Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
	1	2.6	3.9	3.9	—11.0	N	P	N	N	5.2	16.2	15.5	21.3	10.9
	2	1.3	4.6	7.7	N	3.3	3.3	19.4	19.4	18.8	16.8	31.0	20.6	13.6
	3	3.3	4.6	—19.4	N	N	— 3.2	—	—	—	—	—	—	8.1
	4	—	12.9	N	N	10.3	14.9	23.2	16.2	27.8	14.2	20.0	18.8	20.8
	5	3.9	3.9	3.9	5.9	3.9	7.7	12.9	11.0	20.0	18.8	18.1	20.0	11.8
	6	4.6	3.9	5.9	2.6	N	N	N	12.3	20.6	20.0	19.4	16.8	9.9
	7	5.2	5.2	5.9	8.4	22.6	N	N	N	N	8.4	15.5	21.9	13.4
	8	5.2	7.1	7.7	12.9	29.7	27.8	16.8	17.5	18.1	18.8	22.6	16.8	16.8
	9	4.6	5.9	6.5	5.9	7.1	11.0	13.6	17.5	18.8	22.6	20.6	20.0	11.5
	10	5.9	9.7	7.1	11.0	10.3	18.1	20.0	20.0	28.4	17.5	23.9	16.2	13.8
	11	0.7	5.2	3.9	4.6	5.9	9.0	13.6	16.2	20.0	20.6	17.5	20.0	11.7
	12	— 2.6	N	P	P	N	P	— 3.2	9.0	18.1	16.8	20.0	21.3	11.1
	13	7.1	5.2	4.6	7.1	N	P	N	N	N	N	31.7	14.9	14.0
	14	3.9	5.2	3.3	5.9	16.8	44.6	16.2	—19.4	7.1	12.9	14.2	12.9	10
	15	3.9	2.6	3.9	5.2	8.4	12.9	23.2	28.4	23.2	18.8	16.2	16.8	[illegible]
	16	9.0	6.5	8.4	19.4	20.0	N	—18.7	17.5	15.5	17.5	16.8	23.2	14.
	17	3.9	3.9	2.6	2.0	—20.7	7.7	N	N	N	N	P	P	11.5
	18	N	3.3	3.9	4.6	5.9	12.3	14.2	23.2	22.6	18.8	13.6	7.7	9.6
	19	3.9	3.3	3.9	4.6	5.2	7.1	13.6	14.9	16.8	17.5	17.5	17.5	11.6
	20	3.3	2.0	3.3	N	N	—11.0	1.3	13.6	17.5	17.5	14.9	9.7	9.3
	21	5.2	9.7	—12.9	25.8	34.8	N	P	— 9.7	0.0	— 0.6	10.3	12.3	10.1
	22	5.9	5.9	5.9	7.7	9.7	9.7	14.9	18.1	17.5	12.3	18.8	13.6	12.3
	23	6.5	7.1	8.4	14.2	12.3	12.9	3.3	14.2	21.3	20.0	20.6	18.1	12.1
	24	—	—	—	—	—	—	—	—	—	—	—	—	17.1
	25	5.2	5.9	7.7	N	40.0	20.0	22.6	18.8	21.9	18.8	16.2	17.5	15.5
	26	3.9	3.9	5.2	5.9	12.3	22.6	13.6	15.5	16.2	20.0	21.9	14.9	15.4
	27	3.9	4.6	5.9	6.5	7.7	8.4	11.0	12.9	12.3	10.3	9.0	7.7	12.1
	28	5.9	7.1	0.0	7.7	16.2	20.6	16.2	11.6	9.7	11.6	14.2	18.8	10.4
	29	5.9	7.7	4.6	N	42.0	29.1	34.8	12.3	9.0	11.0	13.6	27.1	15.7
	30	6.5	7.1	7.1	8.4	11.6	16.8	23.2	23.2	18.8	18.1	18.8	21.9	16.6
	31	5.2	5.2	5.9	7.7	7.7	12.3	14.9	2.0	12.3	9.0	11.0	12.9	13.7
	Hourly Means.	4.4	5.6	3.7	7.5	13.5	13.7	13.9	13.4	16.8	15.7	18.0	17.2	12.84

BAROMETRIC PRESSURE.

BAROMETER AT 0°C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	9.08	8.81	8.82	8.72	8.88	8.88	9.46	9.55	9.46	8.75	8.52	8.03	—
	2	8.75	8.17	8.13	7.90	8.16	8.47	8.71	9.18	9.61	9.49	9.43	8.54	—
	3	9.08	8.80	8 51	8.48	8.83	9.17	9.60	10.08	10.79	10.48	9.90	9.26	—
	4	9.36	8.83	8.10	7.86	8.03	8.34	8.87	9.36	9.42	9.02	8.69	8.17	—
	5	8.88	8.25	7.92	7.73	7.91	7.98	8.41	8.98	8.72	8.51	8.30	7.77	—
	6	8.36	8.09	8.05	7.97	7.82	8 08	8.42	8.68	8.67	8.41	8.10	7.58	—
	7	8.12	7.69	7.20	7.11	7.02	7.40	7.92	8.30	8.50	8.50	8.15	7.44	—
	8	7.79	7.55	6.96	6.67	6.93	7.18	7.55	8.03	8.24	7.75	7.53	6.88	—
	9	7.92	7.84	7.15	6.91	7.12	7.18	7.30	7.98	8.39	8.11	7.93	7.25	—
	10	7.81	7.27	7.05	7.06	7.23	7.35	7.98	8.78	9.06	9.03	8.47	7.72	—
	11	7.40	7.10	7.07	7.08	7.44	8.01	8.17	8.67	8.68	8.44	8.09	7.74	—
	12	7.82	7.46	7.33	7.35	7.69	8.06	8.67	9.09	9.22	8.98	8.34	7.79	—
	13	9.00	8.73	8.30	8.28	8.31	8.82	9.11	9.57	9.80	9.61	9.42	8.99	—
	14	9.45	9.01	9.00	9.32	9.55	10.04	10.31	10.65	10.76	10.34	9.77	9.14	—
	15	9.63	9.34	9.06	9.09	9.22	9.63	10.15	10.30	10.29	10.05	9.54	8.85	—
	16	9.43	9.19	8.87	8.56	8.95	9.31	9.80	10.08	10.08	9.72	8.95	8.39	—
	17	9.05	8.86	8.52	8.43	8.66	9.04	9 52	9.62	9.69	9.45	9.32	8.74	—
	18	9.51	9.17	9.08	8.95	9.28	9.45	9.64	10.13	10.39	10.20	9.92	9.54	—
	19	10.55	10.19	9.93	9.70	9.86	10.01	10.27	10.52	10.50	10.50	10.09	9.65	—
	20	9.98	9.79	9.35	8.84	8.90	9.08	9.42	9.98	10.11	10.16	9.75	9.22	—
	21	9.32	8.77	8.43	8.20	8.26	8.32	8.62	9.12	9.41	9.40	9.00	8.65	—
	22	8.71	8.27	8.02	8.02	8.23	8.54	9.29	9.87	10.00	9.85	9.70	9.33	—
	23	9.10	8.81	8.51	8.43	8.50	8.96	9.17	9.57	9.75	9.42	9.35	8.96	—
	24	9.41	9.01	8.68	8.86	9.17	9.66	10.16	10.53	10.59	11.06	11.05	10.59	—
	25	9.99	9.76	9.60	9.55	9.55	9.57	9.58	10.05	10.15	10.10	9.68	9.21	—
	26	9.25	8.96	8.53	8.54	8.92	9.34	9.27	9.56	9.83	9.48	9.20	8.73	—
	27	8.61	8.02	7.83	7.85	8.12	8.51	9.02	9.19	9.46	8.97	8.59	7.94	—
	28	8.64	8.17	7.90	7.86	8.15	8.38	8.77	9.11	9.25	8.96	8 27	7.78	—
	29	8.41	7.84	7.55	7.17	7.90	8.26	8.86	9.03	8.56	8.39	7.78	7.14	—
	30	7.89	7.42	7.08	6.95	6.99	7.18	7.71	8.19	8.25	8.01	7.76	7.14	—
Hourly Means.		8.88	8 51	8.22	8.11	8.32	8.61	8.99	9.39	9.52	9.30	8.95	8.41	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	7.40	6 73	6.44	6.69	6.93	7.53	7.89	8.45	8.79	9.15	9.00	9.02	8.37
	2	7.80	7.29	7.12	7.29	7.56	7.81	8.46	9.34	9.79	9.85	9.84	9.53	8.59
	3	8.50	7.64	7.03	7.01	7.33	8.25	9.09	9.74	9.99	10.23	10.15	9.78	9.07
	4	7.27	6.46	6.32	6.64	7.17	7.31	8.21	8.95	9.35	9.55	9.30	9.11	8.32
	5	7.12	6.46	6.14	5.90	5.97	6.30	6 84	7.65	8.24	8.36	8.40	8.54	7.72
	6	6.57	6.09	5.41	5.46	6.06	6.47	6.78	7.78	8.39	8.75	8.82	8.47	7.64
	7	6.67	6.22	5.61	5.86	6.32	6.67	7.58	8.07	8.26	8.44	8.20	8.12	7.47
	8	6.43	5.84	5.82	5.78	6.30	6.67	7.29	7.64	8.09	8.22	8.17	8.11	7.23
	9	6.74	6.39	6.04	6.19	6.43	6.61	7.40	7.71	8.19	8.12	7.95	7.86	7.36
	10	7.16	6.41	6 51	6.31	6.61	6.97	7.35	7.77	8.00	8.37	8 30	7.87	7.60
	11	7.19	6.68	6.39	6.27	6.44	6.98	7.38	7.94	8.28	8.51	8.27	8.14	7.60
	12	7.44	6.88	6.62	6.60	6.67	6.97	7.69	8.50	9.07	9.39	9.31	9.25	8.01
	13	8.49	7.89	7.60	7.49	7.80	8.24	8.89	9.58	9.83	10.07	9.93	9.86	8.90
	14	8.40	7.75	7.44	7.41	7.62	8.10	8.41	9.34	9.69	9.78	9.75	9.77	9.20
	15	8.07	7.62	7.34	7.39	7.64	7.95	8.65	9.27	9.68	9.72	9.55	9.44	9.06
	16	7.49	6.82	6.52	6.94	6.99	7.58	8.19	8.86	9.52	9.57	9.53	9.31	8.69
	17	8.03	7.57	7.27	7.26	7.75	8.40	8.96	9.50	10.14	10.47	10.37	10.05	8.94
	18	9.12	8.72	8.31	8.22	8.52	9.16	9.63	10.05	10.63	10.84	10.88	10.90	9.59
	19	8.88	8.19	7.81	7.59	7.72	8.06	9.03	9.46	10.07	10.45	10.55	10.34	9.58
	20	8.60	8.01	7.81	7.38	7.55	8.23	8.71	9.19	10.09	10.34	9.85	9.83	9.17
	21	8.58	7.92	7.53	7.63	8.68	8.56	8.92	9.22	9.46	9.18	9.04	9.04	8.72
	22	8.67	7.94	7.19	6.96	7.31	7.74	8.40	8.79	9.16	9.45	9 58	9.65	8.69
	23	8.53	7.83	7.37	7.24	7.66	7.98	8.73	9.29	9.72	9.74	9.89	9.93	8.85
	24	9.92	9.30	8.71	8.73	8.76	8.91	9 29	9.34	9.78	10.06	10.11	10.01	9.65
	25	8.73	8 06	7.71	7.61	7.74	8.04	8.35	8.79	9.25	9.75	9.64	9.64	9.17
	26	8.15	7.49	7.22	7.01	7.14	7.45	8.04	8.54	9.06	9.31	9.06	8.93	8.63
	27	7.55	7.19	6.96	6.96	7.11	7.35	7.88	8.54	8.93	9.11	8.91	8.80	8.23
	28	7.18	6.68	6.50	6.40	6.70	7.13	7.72	8.40	8.65	8 79	8.81	8.76	8.04
	29	6.67	6.12	5.91	5.92	6.06	6.55	7.02	7.83	8.63	8.72	8.41	8.15	7.62
	30	6.38	5.72	5.55	5.45	5.62	5.93	6.48	7.20	7.85	8.04	8.04	7.85	7.11
Hourly Means.		7.79	7.20	6.87	6.85	7.14	7.53	8.11	8.69	9.15	9.34	9.25	9.14	8.43

STANDARD THERMOMETER.

JUNE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	74.4	74.1	74.0	74.0	73.8	73.5	74.0	75.0	77.0	79.0	81.0	83.0	—
2	74.6	74.1	74.0	73.4	73.2	72.9	73.5	76.4	79.1	81.5	79.1	80.0	—
3	73.9	73.8	73.5	73.7	73.8	73.6	74.0	75.4	76 7	77.5	77.9	78.7	—
4	74.2	73 8	73.8	72.9	72.8	72.2	73.1	75.2	78.4	80.9	83.0	84.9	—
5	74.1	74.1	73.9	73.1	72.7	72.5	73.1	75.2	78.5	81.0	83.1	85.0	—
6	75.3	74.9	74.4	74.6	74.4	73.9	74.0	76.0	79.0	81.4	83.4	84.0	—
7	74.0	73.8	73.8	73.8	73.3	73.1	73.7	75.6	79.0	81.4	83.5	84 0	—
8	75.0	74.8	74.6	74.0	74.0	74.0	74.7	76.0	78.7	80.5	81.9	83.0	—
9	74.9	75.0	74.8	74.3	74.1	74.2	74.6	76.0	78.7	80.9	83.0	83.5	—
10	75.8	75.2	74.8	74.4	74.0	73.8	74.0	74.8	74.5	75.7	74.1	76.5	—
11	73.4	73.0	72.6	72.3	72.3	71.6	72.0	74 8	78.0	80 0	81.6	82.8	—
12	74.2	74.0	73 7	72.8	71.9	70.9	71.5	72.8	76.3	78.5	80.9	82.2	—
13	73.5	73.1	72.5	72 0	71.5	71.0	71.6	73.5	76.8	79.1	81.9	84.2	—
14	74.0	73.0	72.2	71.4	70.6	70.1	71.1	74.0	78.1	81.1	83.5	85.0	—
15	76.5	76.3	76.0	74.8	74.2	73.8	74.0	76.0	78.7	81.0	83.0	84.9	—
16	74.9	74.3	73.1	72.4	71.8	71.6	73.0	75.0	78.0	80.1	83.2	84.7	—
17	73.0	73.0	72.2	72.0	71.2	71.0	71.2	72.4	75.9	78.5	81.4	83.6	—
18	75.0	74.4	74.0	73.5	73.0	72.8	73.0	74.4	78.2	79.9	81.9	83.5	—
19	73.8	73.1	72.2	72.1	71.2	70.5	71.0	74.0	78.1	81.5	83.7	85.2	—
20	75.6	75.2	75.2	75.0	74.0	73.5	73.0	73.8	75.5	77.8	82.2	84.5	—
21	74.5	74.2	73.8	73 8	73.6	73.2	73.0	74.2	77.0	79.2	81.8	83.0	—
22	72.0	72.0	72.0	72.0	71.9	71.6	71.4	72.6	74.3	76.3	78.4	79.2	—
23	74.7	74.2	74.0	73.5	72.9	72.4	73.0	75.1	78.3	81.7	83.0	83.0	—
24	75.2	75.0	74.5	74.0	74.0	74.0	74.0	74.5	76.4	77.7	77.4	78.5	—
25	72.8	72.4	72.0	71.3	70.9	70.5	71.0	73.3	77.0	79.2	81.7	84.3	—
26	73.2	72.8	72.2	71.9	71.3	70.8	71.8	74.1	77.2	80.0	82.8	84.8	—
27	74.1	73.9	73.7	73.1	72.7	72.4	73.0	74.5	78.0	80.9	83.0	85.4	—
28	74.4	73.7	73.0	72.8	72.2	71.8	72.1	74.2	77.0	78.8	81.9	84.1	—
29	75.0	74.2	74.0	74.0	73.9	74.1	74.8	75.6	78.0	80.4	84.0	85.2	—
30	74.1	73.1	72.5	71.9	71.0	70.5	70.8	73.2	76.8	79.0	81.8	82.2	—
Hourly Means.	74.34	73.95	73.57	73.16	72.74	72.39	72.83	74.59	77.44	79.68	81.64	83.10	—

JUNE.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	83.5	83.3	83.0	82.2	81.5	80.2	78.9	77.6	76.0	75.6	75.3	74.9	77 70
2	84.0	84.2	78.0	80.5	80.2	79.2	77.5	77.0	76.6	76.2	75.4	74.8	77 31
3	79.6	81.2	82.0	82.0	81.0	80.0	79.5	78.7	77.5	77.1	76.1	75.1	77.18
4	86.4	87.0	86.0	82.8	79.0	78.7	77.3	76.2	76.0	75.4	74.9	74.7	77.90
5	86.0	86 0	84.0	81.1	83.2	82.2	80.0	79.0	78.0	76.8	76.4	76.2	78.55
6	85.5	86.5	86.6	85.0	83.5	82.0	81.4	78.0	76.9	75.2	74 4	74.5	78.95
7	85.0	84.2	84.0	83.5	82.1	78.4	76.5	76.0	76 0	75.7	75.2	75.2	77.95
8	83.9	83.3	83 1	82.7	81.8	80.8	80.0	78.0	76.3	75.7	75.7	75.1	78.23
9	83.2	80.1	81.9	81.8	81.0	80.0	78.0	77.0	76.6	76 4	76.0	76.0	78.00
10	78.0	79.2	79.2	78.5	78.5	77.6	76.6	75.9	75 5	75.0	74.7	74 0	75.85
11	83.4	83.5	83.5	83.7	83.0	81.2	80.8	80.3	78.6	77.1	75.8	74.5	77.91
12	83.0	83.1	84.8	84.4	83.0	81.1	79.2	78.0	77.5	76.4	75.7	74.3	77.51
13	85.6	86.5	85 8	84.6	83.2	82.0	80.8	79.0	78.2	76.7	75.3	73.7	78.00
14	85.0	84.8	84.8	84.0	83.0	81.6	79.4	78.3	77.4	77.0	77.1	76.8	78.05
15	86.0	86.0	85.4	85.2	83.3	82.4	81.1	79 4	78.2	77.5	76.9	76.0	79.44
16	86.0	87.6	87.0	78.2	80 0	79.8	79.5	78.7	77.1	75.8	74.9	73.8	77.94
17	84.0	85.2	86.0	85.2	83.3	82.0	79.5	78.6	78 0	77.2	76.1	75.4	77.75
18	84.1	84.7	84.5	83.6	82.4	81.0	80.0	78.0	77.0	76.0	75.1	74.2	78.09
19	85.8	87.1	86.9	86.6	85.2	83.0	81.1	79.9	79.0	77.8	76.4	76.2	78 81
20	84.4	83.4	82.0	83.0	83.8	80.0	78.2	77.7	76 9	75 6	74.8	74.6	77.90
21	83.5	84.0	84.2	81.4	77.8	74.8	72.6	72.0	72 2	72.2	72.2	72.0	76 26
22	80.0	80.2	80.8	81.5	80.5	79.2	78.0	77.4	76.3	76.0	75.7	75 2	76.02
23	84.2	85 6	85.7	84.6	83.7	82.0	80.8	79.3	78.4	77.5	76 7	75 6	78 75
24	81.0	80.0	82.0	81.1	80 8	79.5	78.4	77.0	76.4	75.0	74.2	73.3	76 83
25	85.4	86.5	85.1	84.8	83.4	81.9	80.0	77.4	76.0	75.5	74.3	74.1	77.53
26	85 4	87 0	84.9	83.0	83.4	81.4	79.6	77.2	76.0	75.4	75.0	74.6	77.74
27	87.0	87.6	85 6	83.5	83.5	82.1	80 1	79.0	78 0	77.5	76.3	75.3	78.76
28	85.2	85.6	84.5	83.6	83.6	82.4	80.2	79.8	78.6	77.5	76.5	75.3	78 28
29	85.0	85.2	84.9	84.2	83.0	81.6	80.0	78.8	77.3	76.3	75.9	74 9	78 76
30	84.0	84.5	84.1	83 0	82.1	80.9	78.5	77.0	77.2	77.4	77.0	76.1	77.45
Hourly Means.	84.10	84.44	84.01	82.98	82.13	80.63	79.12	77.87	76.99	76.22	75.53	74.88	77.85

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	921	921	938	947	956	965	956	965	883	854	782	753	—
	2	930	947	956	955	955	964	965	899	832	749	855	818	—
	3	912	912	920	920	912	920	921	898	850	867	852	830	—
	4	939	938	938	964	955	964	946	914	822	733	684	645	—
	5	956	938	938	946	946	955	937	905	799	740	677	620	—
	6	930	939	947	947	939	947	947	915	801	719	684	661	—
	7	956	956	965	965	973	973	973	957	839	770	692	687	—
	8	930	939	947	956	956	956	930	906	862	811	777	738	—
	9	947	939	947	956	965	956	939	899	822	790	712	706	—
	10	931	939	930	939	938	930	930	930	913	872	896	810	—
	11	946	937	946	936	936	955	936	871	821	803	756	702	—
	12	921	930	929	910	840	872	873	842	825	815	776	765	—
	13	920	929	929	928	936	935	927	886	778	756	672	584	—
	14	861	877	902	918	927	926	918	861	761	670	639	607	—
	15	915	915	873	888	904	887	878	833	763	705	677	619	—
	16	863	853	886	893	909	909	964	822	751	694	631	605	—
	17	902	902	919	919	935	927	927	902	816	747	664	595	—
	18	863	862	861	886	894	885	876	854	783	743	693	659	—
	19	921	937	946	928	945	945	927	853	783	679	620	602	—
	20	872	872	855	855	896	903	894	877	840	829	715	643	—
	21	930	938	956	947	947	946	955	939	859	779	707	670	—
	22	946	946	955	955	964	964	973	937	896	873	861	847	—
	23	930	939	947	947	946	946	946	914	830	728	703	684	—
	24	889	888	897	912	912	921	947	930	906	852	883	869	—
	25	937	946	946	963	954	954	963	938	867	809	720	631	—
	26	911	919	936	928	927	926	901	878	819	744	641	566	—
	27	869	869	886	902	893	902	902	870	798	703	644	548	—
	28	904	912	911	910	919	928	910	853	827	777	637	609	—
	29	897	913	921	921	930	938	913	881	821	738	641	602	—
	30	921	937	929	928	945	954	963	920	826	733	680	668	—
Hourly Means.		916	920	925	929	932	935	931	895	826	769	719	678	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	740	733	732	751	749	811	885	875	906	905	914	922	865
	2	680	715	852	811	834	832	852	851	833	849	856	879	861
	3	817	755	728	742	790	841	840	862	884	875	899	930	862
	4	607	621	674	710	792	837	883	906	898	922	939	947	841
	5	607	650	707	769	783	764	841	838	876	906	899	906	828
	6	647	650	644	670	719	772	791	901	916	947	947	947	830
	7	703	722	694	713	737	852	890	899	906	915	930	922	858
	8	748	767	774	759	777	812	810	892	915	923	923	939	864
	9	719	818	764	771	805	879	852	891	906	915	931	940	865
	10	737	690	764	799	830	844	866	873	905	914	930	938	877
	11	692	685	713	734	760	805	835	849	893	851	824	888	836
	12	746	732	657	635	697	776	839	884	900	924	898	904	829
	13	566	589	617	643	712	764	724	785	776	795	832	853	785
	14	652	625	625	628	670	727	816	861	875	891	891	916	794
	15	605	636	678	659	732	694	732	756	782	812	842	856	777
	16	545	530	574	806	818	887	832	792	811	840	863	895	791
	17	609	570	592	601	637	679	764	776	781	773	809	840	774
	18	634	631	642	672	701	732	795	884	891	915	914	921	800
	19	586	562	542	582	626	738	790	817	847	860	882	873	783
	20	636	677	714	724	699	871	893	907	882	889	913	921	824
	21	652	654	668	719	805	879	859	909	928	936	946	946	853
	22	818	888	790	734	796	816	836	852	906	915	923	922	888
	23	642	609	647	675	713	757	797	847	8 9	852	866	872	817
	24	768	887	778	798	782	823	868	899	890	922	930	937	879
	25	554	505	594	631	698	713	707	804	856	872	904	895	807
	26	628	585	636	683	691	684	749	827	872	897	897	896	798
	27	485	482	609	685	698	742	788	823	868	875	890	889	776
	28	582	584	656	692	705	709	722	757	814	851	865	889	788
	29	607	659	658	681	718	770	810	838	875	906	915	922	811
	30	628	624	635	643	646	710	782	842	842	851	866	898	807
Hourly Means.		655	661	679	704	736	784	815	850	870	883	895	907	826

DIRECTION OF THE WIND.

JUNE.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	NE	NE	C	C	NE	NE	NE	SSE	SSW	SSW	NE
2	C	C	C	C	C	C	N	SW	SW	ESE	SE	SE
3	C	C	C	WNW	C	C	WNW	W	NW	NW	WNW	NW
4	C	C	C	C	C	C	WNW	C	WNW	NNW	NNW	NW
5	C	C	C	C	C	C	S	S	SSW	SSW	SSW	N
6	C	C	N	NE	SE	C	C	C	SSE	SE	W	NW
7	SSE	SSE	C	C	SSE	SSE	C	C	SSE	E	E	ENE
8	SSE	C	C	C	C	C	SSE	SSE	S	WSW	W	WNW
9	C	C	C	C	C	C	NW	NW	W	W	WNW	NNW
10	C	C	C	C	C	WSW	C	C	WSW	SSW	S	SSW
11	C	S	S	S	S	S	S	S	S	SSW	SSW	S
12	C	C	C	N	N	C	N	N	N	N	NE	NE
13	C	C	C	C	C	C	C	NNE	WSW	WSW	WSW	NNW
14	W	C	W	C	C	W	W	C	W	ESE	E	NNE
15	C	C	NE	NE	NE	NE	NE	NE	N	W	W	NNW
16	NW	C	C	C	NW	C	NW	WNW	SW	WSW	SSW	SSW
17	C	SW	C	SW	C	SW	SW	SW	SW	SW	SW	WSW
18	C	C	C	C	C	C	WSW	WSW	WSW	SSW	E	ESE
19	E	C	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	E
20	E	ESE	ESE	ESE	ESE	C	ESE	ESE	ESE	E	ESE	ESE
21	C	C	C	C	C	SSE	SSE	SSE	SSE	SE	SE	E
22	C	C	C	S	S	S	S	S	S	SSE	ESE	SE
23	C	E	C	C	C	E	E	C	ESE	SE	E	ESE
24	NW	NW	NW	C	NW	C	C	NW	E	ESE	ESE	E
25	C	ENE	C	C	C	ENE	ENE	ENE	SSW	SSW	SSW	ESE
26	C	C	NE	NE	NE	NE	NE	SSE	SSW	SSW	ESE	ESE
27	E	E	C	E	E	C	C	ESE	SE	SSW	E	E
28	C	N	N	N	C	C	N	N	N	ENE	E	E
29	SSE	SSE	SSE	C	C	SSE	SSE	SSE	SSE	ESE	E	ESE
30	C	C	C	C	C	NE	NE	C	NE	NNW	WNW	WNW

JUNE.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NE	NNE	NNE	NNE	N	N	C	N	N	N	C	C
2	N	N	NW	WNW	C	WNW	WNW	WNW	WNW	C	WNW	C
3	WNW	NW	WNW	NW	WNW	C	WNW	C	C	C	WNW	C
4	NNW	N	NNE	WNW	SSE	SSE	SSE	S	S	C	C	C
5	NW	N	NW	NNW	NW	C	C	NW	C	NW	NW	C
6	NW	NE	NNE	NNE	NE	NE	NE	ENE	SE	SE	SE	SE
7	NE	NNE	NNE	NNE	NNE	WSW	SSE	SSE	SSE	SSE	SSE	SSE
8	N	N	NNW	N	N	N	N	N	NW	NW	C	NW
9	N	NNW	NNE	C	C	N	WSW	C	C	C	C	C
10	SSW	W	W	W	W	SSW	S	S	C	C	C	C
11	SW	NE	NNE	NNE	NNE	NNE	NNE	C	C	N	C	N
12	NNE	NE	NE	NE	NNE	C	C	C	C	C	C	C
13	W	N	NNE	N	N	N	C	C	C	C	N	N
14	NE	NE	NE	NE	NE	NE	C	C	C	C	C	C
15	NW	NNE	NNE	N	N	NW	NW	C	C	NW	NW	C
16	SSW	NNW	N	S	C	C	SSW	SSW	SW	SW	SW	C
17	W	WNW	WNW	WNW	WNW	WNW	C	WNW	WNW	WNW	C	C
18	ESE	ESE	ESE	E	E	E	E	C	C	E	E	E
19	ESE	E	E	E	ENE	E	E	E	E	E	E	E
20	E	NE	ENE	E	E	ESE	C	ESE	ESE	SSE	SSE	C
21	ENE	ENE	NE	ENE	SSW	SSW	S	S	S	C	S	C
22	ESE	E	ESE	E	E	E	E	C	C	C	C	E
23	NE	ENE	NNE	N	N	N	C	C	N	NW	NW	NW
24	SE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	C	C
25	SE	ESE	NE	ENE	NE	NE	NE	C	C	C	C	C
26	ESE	E	NE	NNE	ENE	ENE	ENE	C	C	C	C	ENE
27	SE	NE	NNE	N	N	N	C	C	N	C	N	N
28	E	E	N	N	ENE	ENE	ENE	ENE	ENE	ENE	SSE	SSE
29	ESE	NNE	NE	NE	NE	NE	NE	NE	NE	C	C	C
30	NNW	NNW	NNE	N	N	N	C	C	C	N	N	N

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	0.0	0.8	1.6	0.0	0.0	0.8	0.8	2.4	4.8	1.6	2.4	6.4	—
	2	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.2	3.2	1.6	1.6	0.8	—
	3	0.0	0.0	0.0	0.8	0.0	0.0	0.8	2.4	6.4	7.2	6.4	6.4	—
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	4.0	4.8	4.0	—
	5	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.0	3.2	3.2	4.8	—
	6	0.0	0.0	0.8	4.0	1.6	0.0	0.0	0.0	3.2	3.2	3.2	3.2	—
	7	3.2	1.6	0.0	0.0	0.8	0.8	0.0	0.0	2.4	4.0	4.8	3.2	—
	8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	3.2	2.4	3.2	—
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	2.4	1.6	3.2	1.6	—
	10	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	4.0	6.4	9.7	6.4	—
	11	0.0	0.8	0.8	1.6	1.6	0.8	2.4	2.4	3.2	1.6	1.6	1.6	—
	12	0.0	0.0	0.0	1.6	1.6	0.0	0.8	3.2	1.6	1.6	2.4	1.6	—
	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.2	2.4	2.4	4.0	—
	14	0.8	0.0	0.8	0.0	0.0	0.8	0.8	0.0	6.4	8.0	8.9	8.9	—
	15	0.0	0.0	1.6	0.8	0.8	0.8	0.8	0.8	4.0	4.8	3.2	5.6	—
	16	0.8	0.0	0.0	0.0	0.8	0.0	1.6	4.0	6.4	9.7	9.7	6.4	—
	17	0.0	0.8	0.0	0.8	0.0	0.8	0.8	3.2	1.6	2.4	3.2	4.0	—
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	1.6	4.0	6.4	6.4	—
	19	0.8	0.0	0.8	1.6	1.6	3.2	2.4	2.4	9.7	10.5	11.3	12.1	—
	20	1.6	4.0	3.2	1.6	0.8	0.0	0.8	1.6	2.4	6.4	13.7	12.1	—
	21	0.0	0.0	0.0	0.0	0.0	0.8	2.4	1.6	3.2	7.2	8.0	8.9	—
	22	0.0	0.0	0.0	1.6	0.8	1.6	3.2	3.2	2.4	5.6	7.2	8.0	—
	23	0.0	0.8	0.0	0.0	0.0	0.8	2.4	0.0	4.0	8.9	8.0	6.4	—
	24	0.8	0.8	1.6	0.0	0.8	0.0	0.0	0.8	6.4	7.2	6.4	7.2	—
	25	0.0	0.8	0.0	0.0	0.0	0.8	2.4	3.2	3.2	4.0	4.8	9.7	—
	26	0.0	0.0	2.4	0.8	0.8	1.6	4.0	2.4	2.4	3.2	5.6	9.7	—
	27	2.4	1.6	0.0	0.8	1.6	0.0	0.0	0.8	2.4	4.0	4.8	9.7	—
	28	0.0	2.4	4.0	1.6	0.0	0.0	0.8	1.6	2.4	1.6	6.4	9.7	—
	29	0.8	1.6	1.6	0.0	0.0	0.8	0.8	2.4	3.2	8.0	10.5	12.9	—
	30	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.0	2.4	3.2	3.2	2.4	—
Hourly Means.		0.40	0.53	0.64	0.59	0.45	0.53	1.23	1.79	3.58	4.68	5.65	6.24	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	9.7	9.7	11.3	8.9	6.4	0.8	0.0	2.4	2.4	1.6	0.0	0.0	3.12
	2	4.8	6.4	3.2	1.6	0.0	0.8	0.8	0.8	1.6	0.0	0.8	0.0	1.40
	3	8.0	9.7	7.2	3.2	0.8	0.0	0.8	0.0	0.0	0.0	0.8	0.0	2.54
	4	4.8	9.7	8.9	8.0	1.6	1.6	1.6	2.4	0.8	0.0	0.0	0.0	2.28
	5	7.2	9.7	7.2	1.6	1.6	0.0	0.0	0.8	0.0	1.6	0.8	0.0	2.10
	6	3.2	8.0	8.9	10.5	11.3	8.0	4.8	6.4	4.0	3.2	4.8	1.6	3.91
	7	7.2	8.9	9.7	9.7	6.4	4.0	4.8	2.4	1.6	0.8	0.8	1.6	3.28
	8	4.8	4.0	4.8	6.4	3.2	0.8	0.8	2.4	1.6	1.6	0.0	1.6	2.00
	9	4.0	1.6	3.2	0.0	0.0	3.2	2.4	0.0	0.0	0.0	0.0	0.0	1.03
	10	2.4	1.6	0.8	0.8	1.6	4.0	1.6	0.8	0.0	0.0	0.0	0.0	1.70
	11	3.2	6.4	4.8	3.2	1.6	0.8	1.6	0.0	0.0	0.8	0.0	0.8	1.73
	12	3.2	6.4	8.0	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.73
	13	4.8	4.8	8.9	7.2	3.2	0.8	0.0	0.0	0.0	0.0	0.8	1.6	1.94
	14	9.7	8.9	8.0	8.9	6.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.25
	15	4.8	8.0	10.5	8.0	4.8	1.6	0.8	0.0	0.0	0.8	0.8	0.0	2.64
	16	4.8	6.4	8.9	10.5	0.0	0.0	1.6	1.6	1.6	0.8	0.8	0.0	3.18
	17	4.8	4.0	5.6	4.0	1.6	0.8	0.0	0.8	1.6	2.4	0.0	0.0	1.80
	18	6.4	4.0	7.2	8.0	6.4	4.0	1.6	0.0	0.0	0.8	0.8	0.8	2.60
	19	12.9	11.3	10.5	11.3	10.5	9.7	4.8	3.2	1.6	0.8	1.6	1.6	5.68
	20	11.3	8.9	10.5	7.2	8.0	3.2	0.0	1.6	1.6	1.6	0.8	0.0	4.29
	21	10.5	9.7	9.7	10.5	10.5	6.4	8.0	5.6	0.8	0.0	0.8	0.0	4.36
	22	10.5	12.9	11.3	9.7	4.8	4.8	3.2	0.0	0.0	0.0	0.0	0.8	3.82
	23	5.6	5.6	8.0	7.2	6.4	1.6	0.0	0.0	0.8	1.6	2.4	3.2	3.07
	24	6.4	4.8	12.1	12.1	8.0	1.6	0.8	0.8	0.8	0.8	0.0	0.0	3.34
	25	9.7	12.1	11.3	6.4	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	3.05
	26	12.1	14.5	10.5	6.4	5.6	4.8	1.6	0.0	0.0	0.0	0.0	2.4	3.78
	27	12.1	9.7	12.1	7.2	4.8	0.8	0.0	0.0	0.8	0.0	2.4	0.8	3.28
	28	10.5	10.5	8.9	10.5	9.7	5.6	1.6	0.8	2.4	4.0	2.4	0.8	4.09
	29	10.5	13.7	10.5	11.3	9.7	3.2	2.4	1.6	0.8	0.0	0.0	0.0	4.43
	30	4.0	6.4	9.7	8.0	3.2	0.8	0.0	0.0	0.0	0.8	0.8	0.8	2.00
Hourly Means.		7.13	7.94	8.41	7.16	4.76	2.54	1.57	1.15	0.83	0.80	0.75	0.61	2.92

CLOUDS.

CLEAR = 0. OVERCAST = 10.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	6	10	10	10	10	10	10	10	8	6	5	4	—
	2	7	5	5	3	3	4	2	1	0	6	10	10	—
	3	2	2	3	2	2	7	9	10	10	10	10	10	—
	4	7	9	10	10	9	9	1	1	0	1	1	2	—
	5	3	2	2	3	0	1	2	0	1	0	3	5	—
	6	4	5	8	6	5	4	3	3	4	3	4	4	—
	7	10	10	10	10	10	10	9	3	2	3	4	7	—
	8	3	9	4	4	9	8	4	4	4	6	6	8	—
	9	9	9	10	10	9	9	7	4	7	6	6	8	—
	10	10	10	10	10	10	10	10	10	10	10	10	10	—
	11	3	4	7	7	3	4	3	2	1	4	3	5	—
	12	2	1	1	0	0	2	4	8	9	9	8	10	—
	13	1	0	0	0	1	3	3	1	0	0	0	1	—
	14	2	1	0	1	3	4	1	1	0	0	1	2	—
	15	10	8	3	1	1	1	2	0	0	0	0	3	—
	16	3	2	2	1	3	4	10	8	7	4	3	1	—
	17	3	5	3	5	5	8	9	8	5	7	6	4	—
	18	3	7	4	6	7	8	10	8	8	10	8	9	—
	19	3	2	2	1	2	6	1	1	1	0	0	2	—
	20	1	1	2	1	1	2	6	10	9	9	7	7	—
	21	9	8	5	7	4	7	10	9	9	9	9	9	—
	22	10	10	10	10	8	7	9	8	9	9	9	10	—
	23	7	2	1	2	1	3	3	2	2	4	8	9	—
	24	9	9	10	10	10	10	9	10	10	10	10	9	—
	25	1	1	1	1	0	1	6	3	2	2	5	5	—
	26	1	1	0	1	2	3	1	1	2	2	3	3	—
	27	7	9	10	8	8	10	8	3	3	2	2	4	—
	28	1	1	2	3	2	3	7	7	5	4	5	4	—
	29	9	9	5	3	5	10	9	10	5	6	6	5	—
	30	2	1	1	1	1	2	10	9	9	6	9	9	—
Hourly Means.		4.9	5.1	4.7	4.6	4.5	5.7	5.9	5.2	4.7	4.9	5.4	6.0	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	7	7	5	5	7	7	4	4	7	6	7	6	7.1
	2	5	6	7	4	3	3	2	5	5	4	6	6	4.7
	3	8	7	7	6	6	5	10	9	9	7	7	8	6.9
	4	3	3	3	9	9	7	4	3	3	2	1	2	4.5
	5	2	2	6	3	3	2	4	2	2	2	5	6	2.5
	6	5	7	5	6	4	6	9	10	10	10	10	10	6.0
	7	8	5	4	4	8	9	7	6	9	9	9	9	7.3
	8	9	9	9	6	7	6	8	7	5	6	8	9	6.6
	9	10	10	10	10	10	10	5	7	4	3	8	7	7.8
	10	9	9	9	10	10	10	10	8	7	7	5	2	9.0
	11	9	9	7	7	7	6	7	4	2	1	1	1	4.5
	12	10	10	3	1	1	1	6	3	7	5	3	3	4.5
	13	1	2	2	2	2	3	0	1	0	0	1	0	1.0
	14	2	2	1	0	1	2	1	2	5	6	3	9	2.1
	15	2	2	3	3	6	6	5	3	4	4	2	2	3.0
	16	3	3	5	9	7	6	7	4	2	3	3	2	4.3
	17	6	6	6	7	8	7	7	6	9	9	9	7	6.5
	18	9	9	9	9	8	4	1	0	1	1	1	1	5.9
	19	4	3	3	3	3	4	2	1	1	0	1	1	2.0
	20	7	7	10	7	6	10	7	5	9	7	7	10	6.2
	21	9	9	7	7	10	10	10	10	10	10	10	10	8.6
	22	10	9	8	8	9	10	9	9	7	9	7	10	8.9
	23	4	3	4	6	8	6	5	6	4	3	6	8	4.5
	24	8	10	10	10	10	10	5	6	3	2	1	0	8.0
	25	7	6	7	7	8	8	5	3	3	2	2	3	3.7
	26	7	5	7	7	9	10	2	1	1	2	3	2	3.2
	27	4	4	5	4	4	5	7	7	7	9	9	8	6.1
	28	8	9	9	9	8	6	10	10	10	7	5	2	5.7
	29	5	3	3	4	4	3	2	2	1	2	4	2	4.9
	30	7	6	6	6	5	4	3	4	9	10	8	4	5.5
Hourly Means.		6.3	6.1	6.0	6.0	6.4	6.2	5.5	4.9	5.2	4.9	5.1	5.0	5.38

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE. 1	20.0	3.3	N	N	N	— 1.9	8.4	19.4	10.3	9.7	8.4	7.7	—
2	20.6	18.8	12.9	17.5	19.4	21.3	29 7	12.9	7.7	3.9	N	1.3	—
3	12.3	20.0	21.3	14.9	9.0	10.3	9.7	9.7	6.5	6.5	5.9	5.9	—
4	19.4	18.1	18.8	18.8	17.5	—	—	16.8	11.0	8.4	5.2	4.6	—
5	21.3	25.8	23 2	22.6	29.7	18.1	25.2	12.9	10.3	7.1	5.2	5.9	—
6	15.5	9.7	0.7	12.3	8.4	5.9	18.8	21.3	10.3	7.1	5.9	5.9	—
7	12.3	6.5	7.1	7.7	4.6	9.7	6.5	21.3	12.9	5.2	5.2	5.2	—
8	16.2	17.5	24.5	17.5	22.6	21.9	14.9	10.3	7.7	7.1	7.1	4.6	—
9	15.5	17.5	18.8	22.6	—	13.6	14.2	10.3	8.4	7.7	5.2	3.9	—
10	14.9	9.7	14.2	9.7	11.0	11.0	13.6	9.0	7.1	3.3	5.9	4.6	—
11	25.8	18.8	20.6	19.4	15.5	21.3	18.1	6.5	7.7	4.6	4.6	3.3	—
12	14.2	16.8	20.0	12.9	11.6	12.9	26.5	11.0	13.6	10.3	7.1	5.2	—
13	12.9	26.5	25.8	25.8	18.8	13.6	17.5	11.0	5.9	5.9	3.9	4.6	—
14	12.3	15.5	11.0	12.9	16.8	23.2	21.9	11.0	7.7	4.6	3.9	3.9	—
15	9.0	14.9	9.7	7.7	9.0	—	9.0	13.6	9.7	7.1	5.2	5.2	—
16	12.9	10.3	11.6	11.6	10.3	14.2	11.6	11.0	9.7	7.7	5.9	5.9	—
17	11.0	11.0	12.3	14.2	11.6	20.0	16.2	11.0	16.2	7.7	5.9	5.2	—
18	16.8	15.5	21.9	18.8	12.3	12.9	19.4	15.5	16.2	13.6	4.6	7.1	—
19	14.9	14.9	16.2	18.1	12 9	12.9	14.2	11.6	8.4	4.6	3.3	3.3	—
20	18.1	16.8	14.9	13.6	16.2	16.2	24.5	20.0	17.5	11.6	5.9	5.2	—
21	20.0	23.9	19.4	24.5	25.8	34.8	28.4	15.5	11.0	9.0	7.1	5 2	—
22	21.3	21.3	22.6	19.4	21.9	19.4	21.3	20.0	14.9	12.3	9.7	8.4	—
23	21.9	21.3	18.8	22.6	16.2	11.0	21.3	14.9	11.6	6.5	7.1	5.9	—
24	9.0	14.9	9.0	9.7	9.0	9.0	19.4	18.1	7.7	6.5	5.9	6.5	—
25	26.5	20.6	16.8	20.0	18.1	16.8	19.4	8.4	7.1	2.6	2.6	2.6	—
26	18.1	16.8	14.2	11.0	8.4	8.4	7.7	9.0	9.7	5.2	2.6	2.6	—
27	11.0	9.0	10.3	10.3	7.1	6.5	11.0	10.3	9.7	7.1	3.9	4.6	—
28	9.7	11.0	9.0	9.7	9.0	10.3	22.6	11.0	9.7	7.1	3.9	3.3	—
29	7.1	7.1	7.1	9.7	9.7	12.9	11.6	7.7	12.3	5.2	3.9	2.0	—
30	17.5	20.0	16.8	21.9	20.0	18.8	16.8	12.3	9.0	3.3	2.6	2.0	—
Hourly Means.	15.9	15.8	15.5	15.8	14.4	14.5	17.2	13.1	10.3	7.0	5.3	4.7	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE. 1	7 1	5.9	6.5	6.5	11.6	19.4	22.6	15.5	14.2	16.2	16.2	22.6	11.9
2	2.6	8.4	N	8.4	13.6	P	13.6	15.5	9.7	11.0	14.2	15.5	13.3
3	6.5	3.9	5.2	9.0	14.9	13.6	19.4	19.4	14.2	16.2	19.4	16.8	12.1
4	6.5	5.9	6.5	N	— 6.5	18.8	17.5	18.1	18.1	23.2	17.5	20.0	13.5
5	7.1	5.9	18.1	N	7.7	15.5	20.0	25.2	8.4	7.7	19.4	23.2	15.9
6	4.6	5.9	3.3	0.7	4.6	9.7	27 8	N	N	P	N	N	9.4
7	4.6	3.9	6.5	12.3	11.0	36.1	18.1	11.0	11.6	9.0	13.6	16.2	10.8
8	5.9	6.5	5.9	7.1	N	25.8	45.8	3.9	11.0	13.6	12.9	22.6	14.5
9	2.0	— 3.2	4.6	6.5	16.2	49.4	11.6	14.2	12.9	13.6	14.2	16.2	11.6
10	5.9	6.5	7.1	11.0	28.4	14.2	12.3	18 1	16.8	15.5	9.7	21.9	11.7
11	3.3	2.6	2 6	3.3	4.6	3.3	13.6	5.9	12.3	14.9	14.2	17.5	11.0
12	3.9	2.0	2.6	3.9	5.9	7.7	8.4	12.3	16.8	16.2	14.9	12.3	11.2
13	4.6	2.6	1.3	2.0	0 0	—	16.8	21.3	14.9	16.8	19.4	13.6	12.4
14	N	3.3	2 6	1.3	—	5.9	9 7	14.2	9.0	16.8	24.5	18.8	11.4
15	5.2	3.9	4.6	3.9	1.3	8.4	15.5	9.0	14 2	14.2	11.0	14.2	8.9
16	3.9	3.3	— 0.6	N	8.4	7.7	12.9	10.3	9.7	9.0	8.4	9.0	8.9
17	4.6	4.6	3.3	1.3	5.9	11.0	15 5	20.0	13.6	9.7	12.3	20.6	11.0
18	5.9	5.2	5 2	5 2	7.1	10.3	13.6	14.9	14.2	12.3	14.9	15.5	12.5
19	3.3	2.6	2.6	3.9	6.5	6.5	9.0	15 5	14.2	14.9	16.2	16.2	10.3
20	4.6	2.0	N	3 3	6.5	N	25.8	16.8	20.0	11.6	22.6	22.6	14.4
21	5.2	5.9	7.1	12 3	0.0	— 0.6	0 7	—	—	—	24.5	23.9	14.5
22	9.0	6.5	8.4	6.5	—	—	—	—	—	21.3	21.9	20.6	16.1
23	6.5	7.1	6.5	5.9	7.1	9.7	9.7	16 2	21.3	12.9	12.3	10.3	12.7
24	2.0	—15.5	—14.8	4.6	—	—	—	20 6	20.0	20.6	23.9	22.6	9.9
25	2.0	3.3	3.3	N	7.1	5.9	11.0	13.6	14 9	21.9	16.8	23.2	12.4
26	2.6	2.6	— 4 5	— 1.9	3.3	3.9	9.7	17.5	23.9	19.4	16.2	18.8	9.4
27	3.3	3.3	0.0	0.7	1.3	4.6	7.7	15.5	20.6	11.0	12.9	9.7	8.0
28	3.3	2.6	N	1.3	N	4 6	9.0	14.9	9.7	7.7	8.4	7.7	8.4
29	4.6	3.9	2.6	0.0	5.2	7.7	7.7	11.6	17.5	16.2	19.4	18.8	8.8
30	2.0	0.7	1.3	2.6	0.7	7.7	9.7	8.4	15.5	16.8	14.9	10.3	10.5
Hourly Means.	4.6	3.4	3.6	4.7	6.9	11.1	14.8	14.8	14.8	14.7	16.1	17.3	11.58

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY. 1	7.81	7.42	7.09	6.96	7.27	7.65	7.93	8.38	8.67	8.31	8.13	7.38	—
2	8.40	7.71	7.34	7.41	7.71	8.13	8.75	9.30	9.60	9.84	9.57	9.11	—
3	8.92	8.74	8.20	8.37	8.75	8.92	9.30	9.80	10.09	10.15	9.87	9.13	—
4	10.10	9.83	9.40	9.30	9.51	9.63	10.10	10.68	10.85	11.11	10.72	9.95	—
5	10.53	9.99	9.91	9.85	10.06	10.19	10.71	11.26	11.70	11.49	10.85	10.31	—
6	10.36	9.98	9.68	9.54	9.55	9.92	10.22	10.77	10.93	10.70	10.15	9.53	—
7	10.66	10.33	10.04	10.14	10.30	10.47	10.97	11.37	11.61	11.44	11.15	10.60	—
8	11.30	11.10	10.92	10.95	11.17	11.48	11.74	11.78	11.85	11.57	10.89	10.58	—
9	11.11	10.94	10.56	10.52	10.50	10.62	10.64	11.03	11.01	10.74	10.26	9.68	—
10	10.39	10.24	10.06	9.79	9.84	10.05	10.42	10.77	11.07	10.81	10.33	9.64	—
11	10.53	10.30	9.99	10.02	10.11	10.35	10.60	11.00	11.15	10.93	10.49	9.74	—
12	10.36	9.99	9.60	9.64	9.96	10.20	10.54	10.84	11.00	10.78	10.34	9.79	—
13	10.17	9.82	9.84	9.86	9.80	10.19	10.41	10.90	10.97	10.95	10.40	9.69	—
14	10.88	10.41	10.50	10.51	10.68	10.88	11.00	11.29	11.28	10.83	10.48	9.85	—
15	10.74	10.21	10.11	10.13	10.30	10.54	10.82	11.26	11.28	10.95	10.59	10.11	—
16	10.20	9.93	9.71	9.64	9.57	10.05	10.49	10.87	10.96	10.77	10.50	9.69	—
17	9.70	9.36	9.21	9.20	9.48	9.89	10.32	10.95	10.98	10.79	10.15	9.26	—
18	9.50	9.23	8.90	8.90	9.27	9.63	10.05	10.65	10.90	10.50	10.09	9.42	—
19	9.68	9.21	8.98	8.82	9.03	9.52	9.58	9.75	9.84	9.32	8.78	7.99	—
20	8.88	8.47	8.00	8.02	8.36	8.62	8.99	9.66	9.78	9.79	9.49	8.84	—
21	9.02	8.46	8.42	8.40	8.83	9.00	9.54	9.98	10.21	10.28	9.90	9.23	—
22	9.44	9.09	8.82	8.76	8.92	9.01	9.54	9.97	10.09	10.07	9.74	8.92	—
23	9.22	9.11	8.72	8.64	8.71	8.83	9.08	9.38	9.40	8.95	8.46	7.82	—
24	8.41	8.35	7.87	7.82	7.89	8.00	8.23	8.42	8.57	8.30	7.91	7.39	—
25	7.95	7.82	7.54	7.68	7.81	7.98	8.51	8.76	8.85	8.62	7.95	7.14	—
26	8.22	7.80	7.32	7.45	7.77	8.15	8.66	8.88	8.84	8.78	8.68	8.12	—
27	8.69	8.76	8.47	8.14	8.21	8.46	8.92	9.58	10.00	9.84	9.15	8.65	—
28	8.92	8.80	8.56	8.56	8.86	8.86	9.08	9.32	9.53	9.33	8.99	8.54	—
29	9.09	8.80	8.32	8.43	8.72	8.85	9.35	9.88	10.11	10.00	9.53	9.08	—
30	9.26	8.82	8.25	8.42	8.14	8.61	9.07	9.59	9.70	9.55	9.23	8.70	—
31	9.94	9.70	9.03	8.89	9.02	9.49	10.09	10.44	10.99	11.05	10.79	10.04	—
Hourly Means.	9.63	9.31	9.01	8.98	9.16	9.42	9.80	10.21	10.38	10.21	9.79	9.16	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY. 1	6.77	6.57	6.32	6.36	6.57	6.83	7.06	7.60	8.29	8.62	8.80	8.92	7.57
2	8.49	7.88	7.46	7.64	7.64	8.18	8.41	8.72	9.09	8.96	9.19	9.54	8.50
3	8.53	8.12	7.42	7.58	8.24	8.44	9.56	10.09	10.55	10.68	10.94	10.72	9.21
4	9.44	8.69	8.56	8.05	8.38	8.79	9.29	10.23	10.95	11.13	11.15	11.06	9.87
5	9.22	8.46	7.99	8.03	7.97	8.77	8.91	9.98	10.40	10.58	10.46	10.45	9.92
6	8.81	8.35	8.09	8.08	8.32	8.68	9.18	10.10	10.45	10.75	10.84	10.98	9.75
7	10.18	9.49	9.04	8.97	9.22	9.57	10.13	10.77	11.29	11.46	11.61	11.76	10.52
8	9.88	9.15	8.88	8.91	9.13	9.49	9.93	10.55	10.89	11.08	11.14	11.19	10.65
9	9.24	8.78	8.52	8.68	8.90	9.29	9.70	10.15	10.58	10.93	10.68	10.66	10.16
10	9.22	8.68	8.35	8.17	8.46	8.78	9.01	9.72	10.00	10.59	10.88	10.60	9.83
11	8.99	8.64	8.17	8.07	8.42	8.86	9.40	10.00	10.53	10.81	10.78	10.58	9.94
12	9.45	8.82	8.48	8.46	8.57	9.08	9.62	9.92	10.53	10.65	10.58	10.43	9.90
13	9.13	8.68	8.40	8.50	8.74	9.17	9.65	10.20	10.83	11.24	11.08	11.04	9.99
14	9.11	8.47	8.31	8.31	9.23	9.62	10.03	10.52	10.90	11.19	11.00	10.93	10.26
15	9.26	8.67	8.17	8.03	8.57	9.24	9.63	10.17	10.64	10.65	10.48	10.35	10.04
16	9.01	8.16	7.57	7.62	7.74	8.45	8.83	9.83	10.18	10.48	10.24	10.02	9.60
17	8.65	7.86	7.41	7.32	7.51	7.80	8.63	9.59	9.95	10.22	10.42	10.00	9.36
18	8.63	8.04	7.71	7.58	7.66	7.90	8.45	9.38	9.82	10.00	10.25	10.30	9.28
19	7.40	6.66	6.26	6.24	6.58	7.19	7.52	7.89	8.70	9.26	8.97	8.87	8.42
20	8.13	7.48	7.13	6.98	7.51	7.73	7.95	8.58	9.14	9.32	9.42	9.42	8.57
21	8.36	7.82	7.51	7.64	7.63	8.22	8.39	9.14	9.47	9.87	10.04	9.80	8.97
22	8.46	7.78	7.53	7.56	7.78	8.23	8.54	9.00	9.62	9.80	9.98	9.72	9.02
23	7.21	6.81	6.36	6.28	6.61	6.92	7.60	8.03	8.45	8.59	8.73	8.61	8.19
24	6.94	6.59	6.16	6.36	6.47	6.87	7.43	7.63	8.03	8.32	8.25	8.17	7.68
25	6.54	6.15	5.92	5.80	5.87	6.56	6.82	7.48	7.88	8.16	8.50	8.52	7.53
26	7.46	6.96	6.79	7.51	6.84	7.26	7.98	8.79	9.11	9.30	9.49	9.16	8.11
27	8.18	7.69	7.48	6.93	7.67	8.55	8.71	9.21	9.59	9.73	9.95	9.53	8.78
28	7.72	7.19	6.59	6.91	7.48	7.80	8.47	8.79	9.10	9.57	9.82	9.45	8.59
29	8.49	8.06	7.62	7.47	7.88	8.62	8.90	9.16	9.78	10.01	10.05	9.83	9.00
30	8.17	7.59	7.54.	7.63	8.11	8.73	9.64	10.64	10.15	10.60	10.68	10.36	9.04
31	9.55	8.90	8.64	8.72	8.88	9.86	10.17	10.67	11.20	11.30	11.34	11.33	10.00
Hourly Means.	8.54	7.97	7.63	7.63	7.89	8.37	8.82	9.44	9.87	10.12	10.19	10.07	9.23

STANDARD THERMOMETER.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	75.5	75.3	74.8	74.3	73.6	73.0	73.0	75.2	79.0	81.5	84.0	86.0	—
2	75.8	75.1	74.9	74.1	73.4	73.0	73.4	74.0	75.9	78.5	79.7	81.8	—
3	75.9	75.4	74.8	74.0	73.4	73.0	73.2	76.6	78.8	81.5	8.26	84.2	—
4	76.2	76.0	75.2	74.3	73.6	72.6	73.4	73.7	77.6	77.2	78.5	80.5	—
5	74.9	74.1	73.7	73.2	72.3	72.0	72.0	73.5	77.2	80.0	82.7	84.5	—
6	72.9	72.5	72.3	71.8	71.6	71.9	72.1	74.0	76.3	79.0	81.3	82.8	—
7	72.7	72.5	72.5	71.2	70.3	69.2	69.6	72.0	75.7	79.2	82.4	83.5	—
8	69.2	68.7	68.2	68.3	68.3	67.8	68.3	70.8	74.2	77.9	80.7	82.1	—
9	71.0	70.0	70.0	69.6	68.6	68.5	68.6	71.1	75.4	78.0	81.7	82.6	—
10	72.0	71.1	70.5	70.0	68.9	68.7	69.0	71.3	75.6	78.0	80.7	81.4	—
11	73.4	72.1	71.7	70.8	69.9	69.1	69.1	72.0	75.8	79.0	82.0	83.9	—
12	73.7	72.9	72.1	71.2	70.5	70.0	70.1	72.3	76.3	79.5	81.6	84.2	—
13	72.4	72.0	71.5	70.6	70.0	69.4	69.6	72.4	76.5	80.0	82.6	84.6	—
14	74.3	73.5	73.3	73.3	73.0	72.4	73.0	75.0	78.3	81.0	83.9	85.0	—
15	73.8	73.0	72.5	72.0	71.7	71.4	71.7	74.0	77.8	80.5	83.0	84.7	—
16	74.2	73.6	73.0	72.1	71.9	71.2	71.5	75.0	78.7	81.3	83.1	84.3	—
17	75.2	75.0	74.3	74.0	73.2	72.8	73.1	75.2	79.0	81.6	83.4	84.8	—
18	74.5	73.8	73.5	73.2	72.6	72.0	72.4	74.7	77.7	80.0	81.8	83.4	—
19	73.1	72.8	72.0	71.2	70.6	70.1	70.5	73.2	78.0	81.4	84.0	85.6	—
20	74.0	73.1	72.9	72.6	72.0	71.6	72.0	74.2	78.0	82.0	84.2	85.5	—
21	75.6	75.1	74.1	73.5	73.0	72.5	72.5	75.2	78.0	80.3	83.0	86.0	—
22	76.8	76.0	74.6	73.8	72.9	72.1	72.5	75.0	78.3	81.1	83.7	86.0	—
23	75.8	75.0	74.0	73.6	73.0	72.9	72.8	75.1	79.0	82.0	85.0	86.3	—
24	76.0	73.5	73.1	73.3	73.2	73.2	74.0	75.5	78.0	80.0	82.2	83.9	—
25	74.9	74.1	73.5	73.1	72.5	72.0	72.0	74.8	79.0	82.3	84.6	86.0	—
26	76.0	75.3	75.1	74.9	74.4	74.2	74.2	77.5	81.2	83.2	84.3	86.2	—
27	75.9	76.1	75.5	74.8	74.2	73.5	73.8	76.2	79.4	82.0	83.6	83.8	—
28	74.0	73.3	73.1	72.8	73.0	73.0	73.0	75.8	79.0	82.2	84.1	85.3	—
29	74.5	74.0	73.6	73.4	73.0	72.3	72.6	75.0	78.6	81.7	83.5	83.2	—
30	74.1	73.7	73.1	72.8	72.5	71.6	72.1	74.8	78.0	80.7	82.5	85.0	—
31	72.0	72.1	72.0	71.8	71.1	70.9	71.1	72.5	75.0	78.5	80.7	82.3	—
Hourly Means.	74.20	73.57	73.08	72.57	72.01	71.55	71.81	74.12	77.59	80.36	82.62	84.17	—

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	85.8	85.6	83.3	82.1	81.7	80.8	79.5	78.4	77.7	77.3	77.0	76.6	78.79
2	82.0	80.0	79.1	80.0	79.5	79.0	78.2	77.7	77.2	76.7	76.5	76.0	77.15
3	85.6	83.4	84.2	84.0	83.1	81.6	80.2	79.1	78.5	78.0	77.2	77.0	78.97
4	80.9	80.1	79.8	80.8	80.0	78.1	77.7	77.2	76.2	75.7	75.3	75.4	76.92
5	85.8	84.6	85.5	84.2	82.5	75.0	75.2	75.0	74.6	73.8	73.2	73.0	77.19
6	84.0	85.0	84.7	83.3	82.3	80.0	77.7	76.9	75.4	74.8	74.3	73.4	77.10
7	84.7	85.3	84.9	83.5	82.6	80.1	76.7	74.5	72.9	72.0	71.0	70.0	76.21
8	83.0	84.2	83.3	82.5	81.6	79.6	76.3	75.0	74.0	73.2	72.5	71.3	75.04
9	83.6	83.6	83.0	82.2	81.1	79.5	78.4	77.0	75.4	74.7	73.8	72.6	75.83
10	81.5	83.0	82.6	81.9	80.5	79.5	78.2	76.5	75.7	75.0	75.0	74.6	75.88
11	84.5	85.1	84.8	83.5	82.0	80.1	77.9	76.0	75.4	75.6	75.5	74.9	76.84
12	85.2	85.5	85.0	83.5	82.2	80.6	78.5	76.3	75.0	74.1	73.6	73.0	76.95
13	85.5	86.2	85.3	83.1	81.5	80.6	79.7	78.5	76.9	76.1	75.8	75.1	77.33
14	85.2	85.3	85.0	83.6	77.0	76.8	77.1	76.6	75.4	75.0	74.8	74.3	77.59
15	85.0	84.7	83.9	83.0	82.2	81.5	78.8	78.0	77.0	76.2	75.5	75.0	77.79
16	84.5	85.8	85.5	84.3	82.9	81.6	80.1	78.7	78.3	77.5	77.0	76.0	78.42
17	84.5	85.7	85.0	84.1	83.2	81.7	80.2	79.0	77.6	76.4	75.6	75.0	78.73
18	84.5	84.5	84.5	83.5	82.5	80.9	78.6	76.6	76.4	75.6	74.1	73.4	77.70
19	86.0	85.6	85.6	85.0	83.6	81.9	80.0	78.5	76.6	75.5	75.0	74.2	77.92
20	87.0	86.0	86.4	85.1	84.5	83.0	81.2	80.0	78.4	77.0	76.4	75.6	78.86
21	86.1	85.8	84.6	84.3	83.4	81.9	80.7	79.0	78.0	77.8	77.5	77.4	78.97
22	87.0	87.2	85.0	84.0	83.0	82.0	80.0	79.4	78.9	78.0	77.0	76.0	79.18
23	86.0	86.0	85.3	84.4	82.6	81.5	80.6	80.0	79.6	79.0	77.2	76.0	79.28
24	85.0	84.0	84.0	83.7	83.0	81.0	79.8	78.6	76.8	76.2	75.8	75.1	78.29
25	86.9	87.0	86.2	85.2	84.1	82.1	80.8	79.5	78.8	77.8	77.0	76.4	79.19
26	87.0	85.8	87.0	85.9	84.9	83.5	81.6	80.0	79.0	77.8	76.8	76.3	80 09
27	85.0	85.2	84.7	80.0	80.7	79.2	78.0	77.0	76.0	75.5	75.0	74.7	78.33
28	85.4	85.2	84.5	83.8	82.8	80.9	79.0	77.6	77.0	76.0	75.3	74.9	78.38
29	84.6	83.3	82.5	83.7	82.7	76.9	76.1	75.7	75.2	74.6	74.4	73.9	77.46
30	85.6	86.4	85.5	83.5	82.0	81.1	78.1	74.2	73.4	73.0	72.7	72.3	77.45
31	83.6	84.8	84.1	82.3	81.5	80.6	78.9	78.7	77.4	76.5	76.0	75.1	77.06
Hourly Means.	84.87	84.84	84.35	83.35	82.17	80.41	78.83	77.59	76.60	75.88	75.28	74.66	77.77

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SEP 1 1921

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	914	922	930	938	938	937	946	905	784	697	613	573	—
	2	915	939	922	938	938	937	929	921	873	815	795	742	—
	3	948	948	930	947	956	946	946	882	838	749	702	662	—
	4	890	890	922	930	930	946	920	930	806	875	815	739	—
	5	930	938	938	929	937	928	928	920	828	730	690	657	—
	6	955	955	955	964	955	946	955	921	899	815	725	661	—
	7	867	867	850	873	889	879	825	764	691	607	499	452	—
	8	879	878	878	878	858	876	821	794	756	692	566	510	—
	9	900	907	880	879	888	851	859	821	714	672	558	502	—
	10	884	900	899	898	906	905	906	857	775	687	627	616	—
	11	894	919	909	917	925	915	915	857	774	675	540	557	—
	12	869	876	884	909	908	916	916	867	802	692	618	529	—
	13	902	919	918	926	925	934	915	884	763	673	590	536	—
	14	887	886	877	869	876	893	886	839	761	669	641	620	—
	15	903	920	937	928	936	982	928	896	790	696	657	651	—
	16	878	877	886	884	874	882	874	791	753	635	630	602	—
	17	922	922	930	921	937	937	911	880	793	742	672	651	—
	18	921	921	938	937	919	884	841	764	728	644	611	579	—
	19	902	902	919	935	917	917	917	869	768	670	577	561	—
	20	912	929	920	919	919	928	928	896	806	714	642	615	—
	21	889	897	921	938	937	937	937	914	868	803	703	641	—
	22	874	915	862	887	910	919	919	847	784	678	596	527	—
	23	832	839	869	852	860	859	851	822	740	645	538	575	—
	24	825	921	947	938	938	938	956	889	775	730	668	640	—
	25	913	921	929	929	929	919	919	871	764	668	599	582	—
	26	889	905	897	897	913	912	912	827	775	710	674	630	—
	27	931	931	931	939	938	946	938	915	840	729	699	700	—
	28	921	937	937	946	929	911	911	848	763	668	602	634	—
	29	921	930	911	911	911	919	910	863	777	707	678	684	—
	30	921	911	920	929	946	945	936	888	799	717	670	626	—
	31	955	955	946	955	945	945	945	919	871	814	723	667	—
Hourly Means.		901	912	913	917	919	919	910	866	789	710	643	610	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	586	616	672	701	720	739	794	846	867	875	891	906	805
	2	736	788	878	872	894	894	926	950	949	957	957	966	893
	3	591	740	700	666	718	777	811	839	862	868	875	867	824
	4	697	774	810	783	803	853	876	883	906	923	930	931	865
	5	617	683	641	668	716	904	922	939	930	929	946	955	842
	6	597	589	677	713	668	708	805	842	897	888	878	877	827
	7	453	447	490	500	544	637	786	829	876	866	865	845	715
	8	527	516	517	537	570	662	786	805	853	868	875	909	742
	9	538	538	534	554	587	655	709	764	831	854	869	893	740
	10	643	597	576	619	660	712	737	802	856	863	871	862	777
	11	579	546	514	519	554	651	750	824	831	840	815	830	752
	12	540	560	551	566	605	681	753	817	855	878	877	894	765
	13	523	545	589	670	734	753	772	837	858	873	881	880	783
	14	620	603	588	620	866	899	916	924	914	904	904	921	808
	15	645	631	660	676	729	726	815	860	874	881	855	871	810
	16	643	610	603	636	671	720	766	837	852	883	907	923	776
	17	650	609	619	667	671	699	759	801	852	874	905	905	801
	18	554	560	572	600	628	682	754	803	810	832	887	886	761
	19	544	609	641	665	685	735	803	838	882	914	905	913	791
	20	584	661	682	696	715	690	769	810	845	883	890	914	803
	21	619	636	689	668	705	764	789	847	876	876	907	892	819
	22	573	562	594	628	642	714	766	772	793	813	834	841	760
	23	561	561	594	642	682	748	760	795	786	838	834	841	747
	24	651	680	660	645	675	754	802	846	891	890	898	914	811
	25	542	621	630	639	660	750	804	823	862	867	874	882	787
	26	609	661	646	661	703	747	784	833	854	900	916	940	800
	27	670	671	682	730	716	771	820	858	873	898	897	897	830
	28	646	633	649	693	731	746	822	835	851	881	905	905	804
	29	663	712	715	685	716	850	856	898	914	921	921	947	830
	30	654	631	653	712	757	790	767	896	929	937	937	946	826
	31	639	619	590	681	705	738	807	814	843	882	906	922	824
Hourly Means.		603	619	633	655	691	747	800	841	867	882	891	899	797

DIRECTION OF THE WIND.

JULY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	N	N	N	N	N	N	NNW	SW	SSW	ESE	E
2	C	C	C	C	C	C	C	NE	NE	NE	NE	E
3	C	ENE	ENE	C	C	ENE	ENE	ENE	SE	E	ESE	ENE
4	E	E	C	C	C	E	C	C	E	E	NE	NE
5	C	C	C	C	SSW	SSW	C	C	SSW	WNW	W	NW
6	C	C	C	SSE	S	C	S	SW	WSW	SSW	S	SW
7	NE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SE	SE
8	NE	NE	NE	NE	NE	NE	NE	SSW	SSW	SSW	WNW	WSW
9	N	N	WNW	W	W	W	W	W	SW	WSW	NNW	NW
10	N	N	N	N	N	N	C	C	N	N	ESE	NE
11	C	NE	NE	NE	NE	NE	NE	NE	NNE	E	SE	ENE
12	NNE	NNE	C	NNE	NNE	NNE	NNE	NNE	NNE	SE	S	ENE
13	C	C	C	NNE	NNE	C	NNE	NNE	NE	NE	ENE	ENE
14	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	S	S	W	NE
15	S	C	C	C	C	C	C	S	SSE	ESE	NE	NNE
16	NNW	NW	C	NW	NW	NW	NW	SSW	SSW	ESE	E	ENE
17	N	N	N	C	C	N	N	N	N	NNE	ENE	N
18	C	ENE	ENE	ENE	ESE	S	S	S	S	SSW	SSW	ESE
19	C	C	NE	NE	NE	NE	NE	NE	ESE	SE	E	ESE
20	C	C	C	C	C	C	NE	ENE	ENE	ESE	ESE	E
21	ESE	C	C	C	C	C	ESE	ESE	S	WSW	NW	SSW
22	ENE	ENE	C	C	C	C	ENE	S	SSW	SSW	SSW	E
23	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	ENE	NE
24	NE	NNE	N	N	N	C	N	N	SW	WSW	W	W
25	NE	NE	NE	C	NE	NE	NE	ESE	SE	SE	ESE	E
26	E	E	E	ESE	ESE	C	ESE	SE	SE	ESE	SE	SE
27	C	C	C	C	C	C	C	C	E	NNE	N	NNE
28	C	C	SSE	SSE	SSE	SSE	SSE	S	S	E	SE	NE
29	C	SSW	SSW	SSW	C	SSW	SSW	SSW	SSW	SSW	S	WSW
30	WSW	WSW	WSW	WSW	C	WSW	C	SW	SW	WSW	SW	WNW
31	C	C	C	SW	SW	SW	SW	C	SW	WNW	NW	SW

JULY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	ESE	NE	NE	NE	NE	NE	C	C	C	C	C	C
2	E	NE	ENE	E	ENE	C	C	C	C	C	C	C
3	ESE	ENE	NNE	ENE	E	E	E	E	E	E	E	E
4	NE	NE	ENE	E	SSW	SSW	C	C	C	C	C	C
5	W	NNE	N	N	N	W	W	W	SSE	SSE	SSE	SSE
6	SSE	S	NE	NNE	NE	NE	NE	C	C	NE	NE	NE
7	ENE	E	NE	NNE	NNE	NE	C	C	NE	NE	NE	NE
8	NNE	ENE	N	N	N	N	C	C	C	C	C	C
9	N	N	N	NNE	N	N	C	C	C	C	C	N
10	NNE	NNE	NE	NE	NE	NE	NE	C	C	NE	NE	NE
11	NE	NE	NE	NNE	NNE	NNE	C	NNE	C	NNE	NNE	NNE
12	E	NNE	NNE	NE	NE	NE	C	C	C	NE	C	C
13	ENE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	E	E
14	NNE	NNE	NNE	NE	WSW	SW	SW	SSW	S	S	S	S
15	NNE	NNE	NNE	N	N	N	N	N	N	N	NNW	C
16	SSE	N	NE	NNE	N	N	C	N	N	N	N	N
17	NE	NNE	NE	NE	NE	NE	ENE	ENE	C	C	C	C
18	S	NE	NE	NE	NE	NE	NE	NE	NE	C	C	C
19	E	NE	NE	NE	NE	NE	NE	NE	C	C	C	C
20	E	NNE	NNE	ENE	ENE	ENE	E	E	E	E	ESE	ESE
21	E	NNE	NE	ENE	NE	ENE	ENE	ENE	C	C	C	ENE
22	NNE	N	NE	NNE	NNW	NNW	C	NNW	NNW	W	W	W
23	NNE	NE	NNE	NE	NNE	N	N	N	N	N	N	N
24	ENE	NE	NE	NE	ENE	NE	NE	NE	C	NE	NE	NE
25	ENE	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	E	E	E
26	E	NE	NE	ENE	ENE	E	E	E	C	C	E	E
27	N	NNE	NNW	WSW	WSW	WSW	WSW	SSE	SSE	SSE	SSE	SSE
28	NNE	NE	NE	NE	NNW	W	W	SSW	C	C	C	C
29	NNE	NE	N	NNE	N	W	WSW	C	C	C	WSW	WSW
30	NE	NNE	NNE	NNW	NNW	SSW	SW	SW	SW	SW	SW	C
31	NE	NE	NE	NNE	NNE	N	N	E	SE	SE	SE	SE

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	1.6	1.6	0.8	0.8	0.8	3.2	2.4	4.8	3.2	5.6	6.4	—
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	2.4	3.2	—
3	0.0	1.6	0.8	0.0	0.0	0.8	0.8	0.8	3.2	6.4	7.2	12.1	—
4	1.6	0.8	0.0	0.0	0.0	0.8	0.0	0.0	7.2	5.6	4.0	5.6	—
5	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0	2.4	4.0	4.0	4.8	—
6	0.0	0.0	0.0	1.6	0.8	0 0	1.6	1.6	2.4	2.4	3.2	3.2	—
7	3.2	7.2	1.6	0.8	1.6	0.8	2.4	3.2	3.2	6.4	9.7	8.0	—
8	3.2	3.2	1.6	1.6	3.2	2.4	5.6	4.8	2.4	2.4	3.2	4.8	—
9	0.8	3.2	4.8	2.4	4.8	4.0	3.2	3.2	3.2	1.6	4.0	6.4	—
10	1.6	2.4	0.8	0.8	1.6	0.8	0.0	0.0	1.6	2.4	4.0	4.8	—
11	0.0	1.6	0.8	0.8	1.6	1.6	0.8	2 4	1.6	3.2	4.8	6.4	—
12	0.8	0.8	0.0	1.6	1.6	1.6	1.6	4.0	3.2	4.8	4.0	4.8	—
13	0.0	0.0	0.0	0.8	1.6	0.0	0.8	0.8	3.2	3.2	5.6	6.4	—
14	0.8	0.8	1.6	1.6	1.6	3.2	1.6	0.8	1.6	2.4	3.2	7.2	—
15	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.0	4.0	4.8	7.2	—
16	1.6	0.8	0.0	1.6	1.6	0.8	4.0	5.6	4.8	4.8	4.0	3.2	—
17	0.8	1.6	0.8	0.0	0.0	0.8	0.8	0.8	2.4	3.2	2.4	4.0	—
18	0.0	0.8	0 8	3.2	4.8	4.8	5.6	4.0	4.0	4.8	4.0	4.8	—
19	0.0	0.0	0.8	1.6	1.6	0.8	0.8	1.6	6.4	12.1	15.3	14.5	—
20	0.0	0.0	0.0	0.0	0 0	0.0	1.6	1.6	4.0	8.9	9.7	12.1	—
21	0.8	0.0	0.0	0 0	0.0	0.0	0.8	2.4	2.4	4.0	4.0	4.8	—
22	1.6	1.6	0.0	0.0	0.0	0.0	2.4	4.0	4.0	3.2	4.0	4.8	—
23	0.8	3.2	3.2	1.6	4.0	1.6	3.2	3.2	4.8	4.8	8.0	11.3	—
24	2.4	3.2	1.6	2.4	2.4	0.0	0.8	3.2	4.8	2.4	4.0	3.2	—
25	1.6	1.6	0.8	0.0	1.6	1.6	0.8	2.4	8.0	10.5	12.9	11.3	—
26	2.4	3.2	2.4	1.6	2.4	0.0	1.6	7.2	12.9	14.5	12.9	11.3	—
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	3.2	6.4	—
28	0.0	0.0	0.8	2.4	0.8	1.6	2.4	1.6	2.4	5.6	8.9	9.7	—
29	0.0	0.8	3.2	1.6	0.0	1.6	0.8	3.2	5.6	4.0	4.0	4.8	—
30	0.8	3.2	0.8	0.8	0.0	0.8	0.0	0.8	4.0	3.2	4.0	4.0	—
31	0.0	0.0	0.0	0.8	3.2	0.8	0.8	0.0	3.2	4.8	4.8	3.2	—
Hourly Means.	0.83	1.39	0.93	0.98	1.37	1.06	1.55	2.19	3.93	4.74	5.67	6.60	—

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	4.8	7.2	11.3	5.6	3 2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.67
2	4.0	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90
3	14.5	8.9	4.0	11.3	8.9	6.4	4.0	3.2	4.0	3.2	1.6	3.2	4.45
4	8.0	8.0	8.0	3.2	5.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.53
5	4.0	7.2	8.0	12.1	9.7	5.6	0.8	1.6	4.0	2.4	0.8	0.8	3.08
6	3.2	4.0	9.7	12.1	11.3	6.4	0.8	0.0	0.0	0.8	4.0	3.2	3.01
7	8.0	8.0	9.7	10.5	6.4	1 6	0.0	0.0	0.8	3.2	2.4	3.2	4.25
8	7.2	8.9	9.7	8.9	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.25
9	11.3	9.7	11.3	9.7	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	3.75
10	9.7	9.7	12.9	10.5	5.6	3.2	1.6	0.0	0.0	1.6	1.6	0.8	3.25
11	7.2	8.0	7.2	8.9	8.0	2.4	0.0	0.8	0.0	1.6	3.2	0.8	3.07
12	6.4	8.0	12.1	11.3	8.0	1.6	0.0	0.0	0.0	0.8	0.0	0.0	3.21
13	6.4	6.4	12.9	16.1	10.5	4 0	0.8	0.8	1.6	0.8	3.2	2.4	3.68*
14	12.1	9.7	9.7	11.3	4.8	0.8	0.8	5.6	3.2	1.6	1.6	1.6	3.72
15	12.9	12.1	14.5	12.1	7.2	2.4	1.6	0 8	3.2	2.4	2.4	0.0	3.92
16	3.2	8.9	10.5	10.5	8.0	1.6	0.0	0.8	0.8	0.8	0.8	0.8	3.31
17	7.2	12.1	13.7	12.9	10.5	8.9	5.6	0.8	0.0	0.0	0.0	0.0	3.72
18	4.0	8.0	12.9	11.3	8.9	4.0	0.8	0.8	1.6	0.0	0.0	0.0	3.91
19	11.3	12.9	16.1	13.7	12.1	6.4	2.4	0.8	0.0	0.0	0.0	0.0	5.47
20	10.5	9.7	12.1	16.9	11.3	4.8	5.6	1.6	1.6	3.2	0.8	1.6	4.90
21	8.0	15.3	16.1	18.5	11.3	6.4	2.4	0.8	0.0	0 0	0.0	0.8	4.12
22	8.0	11.3	16.9	11.3	6.4	1.6	0.0	0.8	1.6	1.6	1.6	4.0	3.78
23	11.3	13.7	12.9	11.3	8.9	2.4	0.8	0.8	0.8	1.6	4.0	2.4	5.03
24	12.9	14.5	13.7	12.1	10.5	4.0	2.4	0 8	0.0	0.8	0.8	1.6	4.35
25	12.9	12.9	16.1	15.3	14.5	9.7	5.6	4.0	4.0	4.0	3.2	3.2	6.60
26	12.1	9.7	15.3	17.7	11.3	4.0	4.0	1.6	0.0	0.0	0.8	0.8	6.24
27	13.7	10.5	8.0	4.8	2.4	3.2	4.0	1.6	3.2	0 8	2.4	0.8	2.91
28	10.5	14.5	12.9	11.3	6.4	3.2	3.2	2.4	0.0	0.0	0.0	0.0	4.19
29	12.9	12.1	10.5	7.2	5.6	4.0	0.8	0.0	0.0	0.0	0.8	0.8	3.51
30	4.8	9.7	15.3	9.7	8.0	4.0	12.1	5.6	0.8	0.8	1.6	0.0	3.95
31	6.4	10.5	12.1	8.0	4.8	0.8	3.2	4.0	3.2	2.4	0.8	1.6	3.31
Hourly Means.	8.69	9.85	11.56	10.89	7.73	3.49	2.04	1.29	1.14	1.11	1.24	1.14	3.81

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	8	4	2	2	1	4	2	1	3	3	4	5	—
	2	7	9	4	2	4	10	10	10	10	10	10	9	—
	3	10	10	10	3	2	2	8	5	5	6	9	5	—
	4	9	9	9	9	9	8	8	10	6	7	9	8	—
	5	9	9	7	4	3	3	6	4	3	6	4	5	—
	6	4	3	2	3	6	4	3	1	1	2	3	4	—
	7	1	1	3	0	2	3	4	2	1	1	0	0	—
	8	1	0	0	0	1	2	2	0	0	0	0	0	—
	9	7	7	7	9	3	2	1	0	2	1	2	2	—
	10	1	1	0	0	0	0	4	1	0	0	2	7	—
	11	2	1	0	0	0	2	0	0	0	1	1	1	—
	12	7	2	0	0	1	4	2	1	0	0	0	1	—
	13	1	0	0	2	2	3	0	0	0	0	0	1	—
	14	3	3	10	9	10	10	4	7	1	2	3	3	—
	15	1	2	2	2	3	4	3	1	0	0	2	3	—
	16	1	1	2	1	0	3	2	0	0	0	3	5	—
	17	4	6	3	1	2	2	1	0	0	1	5	3	—
	18	2	1	2	0	2	3	0	0	0	2	1	2	—
	19	0	2	1	3	3	6	1	0	0	1	1	2	—
	20	1	1	0	0	0	6	4	0	1	5	4	6	—
	21	2	1	2	3	1	2	1	2	2	2	4	5	—
	22	2	4	2	2	3	4	0	1	0	2	1	0	—
	23	4	6	2	1	3	3	2	2	2	2	1	1	—
	24	10	10	10	10	9	9	7	1	0	0	2	7	—
	25	0	1	0	0	0	1	4	0	0	1	3	5	—
	26	1	0	0	0	1	2	1	0	5	6	7	6	—
	27	2	8	3	1	2	2	3	2	3	4	4	7	—
	28	4	3	1	3	2	3	2	3	3	4	4	5	—
	29	2	5	3	2	3	6	4	3	3	4	4	7	—
	30	10	4	1	0	1	2	6	7	5	6	6	7	—
	31	7	6	4	2	1	3	3	4	4	3	5	4	—
Hourly Means.		4.0	3.9	3.0	2.4	2.6	3.8	3.2	2.2	1.9	2.6	3.4	4.1	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	7	7	9	9	10	9	9	6	8	9	9	8	5.8
	2	9	10	10	9	9	9	9	9	9	9	10	10	8.6
	3	6	8	9	10	10	8	7	8	8	8	9	9	7.3
	4	10	10	10	8	10	10	9	9	9	8	9	10	8.9
	5	7	8	6	5	8	10	10	10	9	9	7	5	6.5
	6	7	7	5	3	3	6	2	1	2	2	1	1	3.2
	7	0	0	0	0	1	1	2	3	2	2	1	2	1 3
	8	1	1	1	0	0	2	1	1	9	7	5	3	1.5
	9	2	2	2	3	6	8	4	3	3	4	2	1	3.5
	10	6	6	3	4	5	7	3	9	4	4	10	4	3.4
	11	4	3	2	3	2	6	4	3	9	6	3	5	2.4
	12	0	2	1	0	0	0	1	2	1	2	4	3	1.4
	13	2	4	2	4	4	6	4	1	0	0	1	1	1.6
	14	4	2	3	8	10	10	7	6	3	2	2	2	5.2
	15	2	1	1	1	7	9	7	5	5	4	2	1	2.8
	16	5	3	3	1	3	4	3	2	3	4	3	2	2.3
	17	6	2	0	0	0	4	6	5	5	3	0	3	2.6
	18	2	6	3	1	0	1	0	0	1	1	1	1	1.3
	19	4	6	6	5	1	3	2	0	2	0	4	2	2.3
	20	6	8	8	7	7	9	5	3	2	2	2	3	3.8
	21	7	7	5	7	2	4	2	2	3	4	6	2	3.3
	22	1	1	1	1	1	2	4	5	7	9	9	5	2.8
	23	2	2	3	2	4	5	9	7	6	5	2	2	3.3
	24	5	1	0	0	0	3	1	0	0	2	1	2	3 8
	25	4	7	6	3	6	7	2	0	0	1	2	2	2.3
	26	7	7	5	3	5	6	2	3	1	4	1	1	3.1
	27	6	4	9	9	10	10	9	9	10	10	10	7	6.0
	28	3	3	4	4	3	7	4	1	2	0	0	0	2.8
	29	9	10	9	8	10	10	9	3	3	4	5	7	5.5
	30	7	6	7	7	9	9	10	10	10	10	10	8	6.6
	31	9	7	9	9	9	9	9	9	9	9	9	9	6.3
Hourly Means.		4.8	4.9	4.6	4.3	5.0	6.3	5.0	4.4	4.7	4.6	4.5	3.9	3.92

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	12.9	11.6	11.6	10.3	11.0	11.6	16.8	12.9	8.4	3.9	3.9	3.3	—
2	25.8	21.3	26.5	18.8	17.5	19.4	32.3	22.6	12.3	9.7	3.9	4.6	—
3	14.9	18.8	15.5	16.2	14.9	20.0	25.2	—	—	—	—	—	—
4	—	—	—	—	—	—	—	25.8	28.4	— 1.3	6.5	5.9	—
5	16.8	19.4	20.6	20.0	16.2	16.2	22.6	25.8	20.0	6.5	3.9	3.3	—
6	16.2	12.9	14.2	11.0	9.0	11.0	12.9	10.3	8.4	—	—	—	—
7	—	—	—	—	—	—	—	9.0	10.3	7.1	4.6	3.9	—
8	10.3	9.7	9.0	9.7	9.7	8.4	9.7	6.5	9.0	6.5	3.3	5.9	—
9	16.8	12.9	9.0	9.0	9.0	7.7	10.3	8.4	7.1	6.5	5.2	4.6	—
10	12.9	10.3	9.7	9 0	12.9	11.0	12.9	11.6	11.0	5.2	3.9	2.6	—
11	14.9	8.4	1.3	2.6	0.0	7.1	— 0.6	9.0	11.0	4.6	4.6	—	—
12	5.2	7.1	5.9	3.3	5.9	1.3	6.5	3.3	—	—	2.0	3.3	—
13	8.4	3.3	3.9	3.9	9.7	5.9	8.4	7.7	11.6	2.6	5.2	5.2	—
14	6.5	4.6	6.5	3.9	2.0	1.3	3.3	5.9	5.2	3.9	2.0	2.6	—
15	4.6	6.5	9.0	16.2	9.0	19.4	18.1	11.0	7.7	4.6	5.2	5.2	—
16	5.9	0.7	3.9	1.3	4.6	1.3	12.9	6.5	4.6	4.6	3.9	4.6	—
17	0.7	7.1	7.1	6.5	18.8	6.5	9.0	9.7	3.9	1.3	2.6	2.0	—
18	10.3	9.0	3.9	3.3	— 5.2	— 3.9	— 4.5	0.7	4.6	1.3	1.3	3.9	—
19	12.3	9.7	4.6	2.0	9.7	12.9	20.6	16.2	7.1	3.3	1.3	2.6	—
20	14.9	13.6	14.2	16.8	9.0	11.0	16.8	11.6	6.5	1.3	2.0	2.0	—
21	7.7	7.7	11.0	14.9	9.7	3.3	20.6	6.5	8.4	4.6	2.6	0.0	—
22	8.4	6.5	5.9	9.0	11.0	14.2	23.9	0.0	— 1.9	0.0	— 1.3	1.3	—
23	— 1.9	— 3.2	0.7	2.0	— 0.6	3.9	8.4	0.0	5.2	0.7	0.0	2.0	—
24	— 0.6	—16.1	0.7	6.5	3.9	4.6	16.2	2.6	— 2.6	2.6	— 3.2	2.0	—
25	16.2	13.6	7.1	11.6	12.9	9.0	9.7	11.6	7.1	3.3	2.6	3.3	—
26	7.7	6.5	7.7	8.4	9.0	11.0	14.9	9.0	3.9	2.0	2.0	2.0	—
27	3.9	7.7	10.3	11.0	14.9	13.6	11.6	0.7	2.0	1.3	0.0	2.6	—
28	8.4	11.0	8.4	9.0	3.3	0.7	5.9	4.6	5.2	3.3	3.3	2.6	—
29	11.6	5.9	4.6	7.1	7.1	9.0	3.3	5.2	3.3	1.3	2.0	1.3	—
30	10.3	8.4	9.7	14.9	13.6	15.5	16.2	11.0	3.3	3.9	3.3	2.6	—
31	9.0	7.1	7.1	8.4	9.7	11.0	26.5	11.0	9.7	6.5	2.6	4.6	—
Hourly Means.	10.0	8.3	8.6	9.2	8.9	9.1	13.5	9.2	7.6	3.6	2.7	3.2	—

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	4.6	3.9	3.9	2.0	4.6	7.7	14.9	14.2	17.5	18.1	17.5	23.9	10.5
2	N	N	P	—17.4	4.6	12.3	15.5	14.2	16.8	21.9	2.0	7.7	13.9
3	—	—	—	—	—	—	—	—	—	—	—	—	17.9
4	5.9	18.8	16.2	N	7.7	10.3	18.8	17.5	18.8	20.0	20.6	18.8	14.9
5	3.3	2.6	3.3	— 3.2	23.2	N	P	28.4	18.1	12.3	11.0	12.9	13.8
6	—	—	—	—	—	—	—	—	—	—	—	—	11.8
7	3.9	3.9	4.6	2.6	4.6	5.9	3.9	12.3	25.2	—	—	—	7.3
8	3.3	3.3	N	3.3	3.9	7.1	12.3	29.1	21.3	23.9	21.9	18.1	10.7
9	5.2	3.3	2.0	2.0	4.6	5.2	11.0	11.0	13.6	20.0	12.9	15.5	8.9
10	3.3	2.0	2.6	4.6	3.3	4.6	7.7	8.4	11.6	12.9	8.4	9.0	8.0
11	—	3.3	2.0	1.3	2.0	3.9	5.2	9.7	0.7	14.9	13.6	11.0	5.9
12	2.6	3.3	2.0	— 1.9	N	5.2	10.3	11.0	16.2	20.0	9.0	14.2	6.5
13	4.6	2.6	2.6	N	N	6.5	10.3	14.9	9.7	0.7	13.6	1.3	6.5
14	2.0	2.6	2.0	N	N	7.1	11.0	10.3	7.1	8.4	9.0	9.7	5.3
15	5.2	4.6	4.6	5.2	20.6	22.6	26.5	9.0	11.6	7.1	— 1.9	2.0	9.7
16	0.0	2.6	3.9	3.3	5.2	8.4	9.7	12.9	19.4	12.9	14.9	9.7	6.6
17	2.0	3.3	2.0	2.6	3.9	4.6	3.9	7.1	10.3	8.4	7.7	7.1	5.8
18	3.9	3.3	2.6	N	2.6	3.3	3.9	14.9	9.0	10.3	13.6	7.7	4.3
19	3.3	— 0.6	— 1.3	0.7	0.7	3.9	5.2	7.1	8.4	11.6	8.4	9.0	6.6
20	2.0	1.3	— 1.9	— 3.9	4.6	3.9	10.3	10.3	7.7	5.2	11.6	6.5	7.4
21	1.3	0.7	1.3	N	0.7	3.9	7.7	N	12.9	11.0	9.7	11.0	7.1
22	0.0	2.0	— 1.9	2.0	2.6	0.0	5.9	3.3	1.3	3.3	— 2.6	2.6	4.0
23	2.6	0.0	0.7	2.0	— 0.6	3.9	7.1	5.9	2.6	9.0	— 1.9	5.2	2.2
24	4.6	3.9	3.3	1.3	4.6	8.4	11.0	13.6	17.5	3.9	2.6	12.3	4.3
25	2.6	2.0	0.0	1.3	2.0	4.6	5.2	7.1	6.5	7.7	7.7	8.4	6.8
26	2.0	2.6	2.0	0.0	0.0	5.9	9.7	12.3	11.6	13.6	14.9	5.2	6.8
27	1.3	0.7	— 1.3	—12.9	N	N	8.4	9.0	9.0	8.4	8.4	7.1	5.4
28	3.3	2.6	3.9	0.0	9.0	14.2	23.2	3.3	7.1	13.6	7.7	11.6	6.9
29	3.9	N	5.9	3.3	4.6	—16.1	8.4	14.9	14.2	18.1	12.3	11.6	6.2
30	1.3	2.0	0.0	4.6	20.6	25.8	N	N	N	2.6	6.5	6.5	8.7
31	3.9	5.2	5.2	5.9	5.9	10.3	15.5	12.9	9.7	11.6	11.6	12.3	9.3
Hourly Means.	3.0	3.2	2.6	0.4	5.8	6.8	10.5	12.0	12.0	11.8	9.7	9.9	7.57

BAROMETRIC PRESSURE.

BAROMETER AT 0°C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	10.85	10.29	9.91	9.93	10.09	10.46	10.77	11.35	11.71	11.57	11.28	10.54	—
	2	11.90	11.61	11.11	10.76	10.78	11.09	11.74	12.25	12.74	12.45	12.07	11.43	—
	3	11.06	10.59	9.90	9.81	9.91	10.13	10.51	10.99	11.20	11.14	10.93	10.35	—
	4	10.13	9.82	9.64	9.17	9.20	9.51	9.94	10.39	10.73	10.74	10.43	9.73	—
	5	9.84	9.76	9.50	9.48	9.70	10.01	10.36	10.80	10.91	10.90	10.60	9.73	—
	6	10.04	9.71	9.45	9.49	9.58	9.84	10.16	10.61	10.96	10.60	10.22	9.61	—
	7	10.35	9.98	9.40	9.61	9.88	10.08	10.30	10.78	10.98	10.77	10.42	9.72	—
	8	10.25	9.88	9.49	9.45	9.49	9.66	9.89	10.39	10.49	10.29	9.79	9.29	—
	9	9.95	9.53	9.32	9.31	9.38	9.84	10.22	10.40	10.49	10.28	9.77	9.00	—
	10	9.36	9.02	8.90	9.02	9.25	9.54	9.79	10.24	10.40	10.13	9.70	9.18	—
	11	9.35	9.08	8.83	8.97	9.12	9.41	9.61	10.04	10.02	9.60	9.14	8.34	—
	12	9.49	9.23	8.83	8.75	8.91	9.18	9.64	9.98	9.99	9.64	8.90	8.00	—
	13	9.02	8.61	8.12	8.20	8.63	8.96	9.28	9.71	9.71	9.62	9.13	8.20	—
	14	7.71	7.04	6.91	6.83	7.12	7.68	8.05	8.25	8.46	8.20	7.73	7.19	—
	15	8.06	7.82	7.45	7.37	7.67	7.85	8.03	8.68	8.77	8.85	8.45	7.89	—
	16	8.85	8.44	7.93	7.88	8.01	8.52	9.04	9.47	10.00	10.24	9.47	8.81	—
	17	9.01	8.83	8.60	8.58	8.86	9.15	9.43	10.23	10.40	10.33	9.60	8.83	—
	18	8.70	8.40	7.89	7.72	7.85	8.28	8.60	9.01	9.24	9.13	8.72	8.21	—
	19	9.01	8.60	8.32	8.00	8.18	8.71	9.03	9.59	9.73	9.37	8.84	8.36	—
	20	8.80	8.52	8.31	8.23	8.31	8.73	8.95	9.17	9.35	8.99	8.70	8.32	—
	21	8.91	8.51	8.19	8.02	8.16	8.33	8.90	9.44	9.96	9.60	9.15	8.64	—
	22	9.35	9.05	8.74	8.47	8.56	8.84	8.87	9.15	9.38	9.10	8.59	7.87	—
	23	8.66	8.24	7.75	7.65	7.81	8.02	8.21	8.75	8.90	8.74	8.38	7.79	—
	24	8.55	8.14	7.84	7.81	8.00	8.18	8.67	9.21	9.50	9.53	9.03	8.11	—
	25	9.06	8.75	8.69	8.77	8.80	9.12	9.48	9.85	9.90	9.70	9.29	8.70	—
	26	8.94	8.64	8.47	8.50	8.77	8.88	9.25	9.55	9.59	9.21	8.50	7.58	—
	27	8.27	7.79	7.61	7.74	7.75	8.02	8.36	8.75	8.87	8.69	8.29	7.62	—
	28	8.52	8.01	7.89	7.66	7.84	8.36	8.93	9.37	9.53	9.40	8.83	8.20	—
	29	8.69	8.36	7.86	7.90	8.07	8.54	9.17	9.83	10.17	9.98	9.58	8.98	—
	30	8.97	8.33	8.13	7.75	7.90	8.26	8.66	9.21	9.76	9.80	9.28	8.60	—
	31	8.99	8.56	8.52	8.05	8.08	8.46	9.06	9.40	9.79	9.85	9.47	8.65	—
Hourly Means.		9.31	8.94	8.63	8.54	8.70	9.02	9.38	9.83	10.05	9.89	9.43	8.76	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	10.13	9.48	9.27	8.83	8.91	9.69	10.71	11.65	12.24	12.44	12.65	12.59	10.72
	2	10.73	9.89	9.43	9.07	9.13	9.37	10.36	11.00	11.38	11.43	11.49	11.46	11.03
	3	9.52	8.81	8.19	7.84	7.77	8.53	8.98	9.75	10.34	10.78	10.69	10.60	9.93
	4	8.99	8.63	8.13	8.14	8.17	8.50	8.72	9.33	9.69	10.08	10.00	9.95	9.49
	5	9.26	8.46	8.11	7.94	8.14	8.46	8.82	9.61	10.10	10.47	10.50	10.49	9.66
	6	9.08	8.43	8.08	7.68	7.88	8.32	8.87	9.43	9.95	10.34	10.72	10.72	9.57
	7	9.12	8.63	8.23	8.09	8.20	8.58	8.93	9.65	10.05	10.48	10.64	10.67	9.73
	8	8.70	8.24	7.98	7.61	7.86	8.00	8.57	9.38	9.63	10.37	10.23	10.20	9.38
	9	8.59	7.94	7.62	7.57	7.68	7.78	7.99	8.64	9.02	9.40	9.54	9.54	9.12
	10	8.53	7.85	7.48	7.33	7.56	8.08	8.64	9.18	9.48	9.79	9.83	9.85	9.09
	11	7.75	7.17	6.81	6.78	7.01	7.57	8.58	9.14	9.57	9.97	10.18	10.01	8.84
	12	7.57	6.91	6.68	6.64	6.83	7.34	7.93	8.46	8.84	9.20	9.73	9.55	8.59
	13	7.46	6.93	6.68	6.64	6.83	7.24	7.77	8.43	8.73	8.76	8.51	8.19	8.31
	14	6.87	6.38	6.01	6.01	6.29	6.65	6.97	7.65	8.36	8.44	8.42	8.29	7.40
	15	7.48	6.89	6.77	6.92	7.20	7.58	8.26	8.74	9.20	9.33	9.52	9.21	8.08
	16	8.31	7.54	6.84	6.83	7.16	7.53	8.20	8.86	9.28	9.62	9.75	9.45	8.58
	17	7.97	7.53	6.74	6.58	6.98	7.66	8.18	8.87	9.38	9.56	9.43	9.11	8.74
	18	7.71	7.08	6.62	6.44	6.94	7.53	8.43	8.88	9.32	9.70	9.68	9.45	8.31
	19	7.77	7.19	6.84	6.62	6.71	7.16	7.79	8.40	8.78	9.00	9.09	8.92	8.33
	20	7.69	7.38	7.18	7.16	7.41	7.66	8.02	8.57	8.93	9.19	9.22	9.24	8.42
	21	8.27	7.73	7.39	7.37	7.39	7.56	8.50	9.07	9.51	9.73	10.05	9.78	8.67
	22	7.32	6.73	6.68	6.78	6.99	7.36	7.83	8.17	9.05	9.23	9.25	9.05	8.35
	23	7.01	6.48	6.08	6.04	6.27	6.67	7.33	7.90	8.43	8.80	9.20	8.91	7.83
	24	7.88	7.52	7.12	6.94	7.08	7.59	8.28	8.55	9.09	9.37	9.54	9.47	8.36
	25	8.29	7.47	7.23	7.41	7.77	8.47	8.68	9.29	9.76	10.07	10.10	9.88	8.94
	26	7.11	6.74	6.46	6.49	6.63	7.19	7.93	8.64	9.11	9.32	9.20	8.75	8.31
	27	6.89	6.27	6.07	5.99	6.21	6.74	7.48	7.75	8.34	8.43	8.63	8.65	7.72
	28	7.43	6.63	6.12	5.92	6.23	6.82	7.53	8.30	8.90	9.30	9.48	9.25	8.10
	29	8.51	7.79	7.54	7.59	8.13	8.78	9.69	10.34	10.30	10.45	10.09	9.74	9.00
	30	7.75	7.03	6.56	6.44	6.79	7.37	7.72	8.61	9.18	9.40	9.68	9.50	8.36
	31	8.00	7.52	7.23	7.11	7.37	8.68	9.27	9.34	9.86	10.00	9.93	9.80	8.79
Hourly Means.		8.18	7.59	7.23	7.12	7.34	7.82	8.42	9.02	9.48	9.76	9.84	9.68	8.83

STANDARD THERMOMETER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST. 1	74.8	74.2	73.8	73.1	72.8	72.2	73.3	76.3	78.9	82.0	84.1	86.0	—
2	74.0	73.8	73.8	73.4	72.9	72.4	72.4	75.2	79.0	81.0	82.9	84.3	—
3	73.2	73.0	72.8	72.6	72.2	71.7	72.0	74.0	78.0	80.8	82.0	84.0	—
4	75.8	75.1	75.1	74.5	73.8	73.2	73.2	75.5	79.0	82.0	84.0	85.5	—
5	73.9	73.4	73.0	72.6	72.7	72.9	73.2	75.2	79.3	82.5	84.3	85.2	—
6	74.1	73.5	73.1	72.6	72.0	71.5	71.7	73.4	77.0	81.0	83.0	84.8	—
7	74.0	73.6	73.3	72.7	73.0	73.0	73.4	75.2	78.8	80.8	82.4	84.4	—
8	75.6	75.2	74.2	73.9	72.9	72.9	73.4	75.2	78.4	81.0	82.7	83.6	—
9	72.0	71.6	71.0	70.6	70.2	70.0	70.1	72.8	76.5	79.5	81.7	83.0	—
10	74.8	73.4	72.6	72.0	71.7	71.2	71.6	73.0	75.5	80.0	82.6	83.4	—
11	74.1	73.0	72.2	71.2	71.0	70.4	70.9	73.6	77.3	80.5	83.0	85.1	—
12	73.0	72.7	72.4	72.2	72.1	72.0	72.0	74.3	77.8	81.0	83.2	84.8	—
13	75.0	74.4	73.8	73.0	72.8	72.2	72.9	75.3	78.3	82.0	84.0	86.1	—
14	74.2	74.2	74.0	73.1	72.8	72.5	72.6	74.0	77.7	81.5	83.3	84.7	—
15	74.7	73.8	73.3	73.2	73.0	73.2	73.8	75.0	77.2	79.0	82.7	84.0	—
16	75.1	73.8	73.1	72.9	72.5	72.2	72.5	74.4	76.6	79.8	84.4	85.8	—
17	75.0	74.4	74.0	74.6	74.8	74.7	75.0	76.0	77.2	79.0	81.1	84.8	—
18	76.2	75.8	74.8	74.0	73.8	73.4	74.2	77.4	80.2	83.0	85.0	86.6	—
19	75.0	74.1	73.4	73.0	72.5	72.5	73.1	76.0	79.0	82.5	84.2	86.0	—
20	74.7	73.8	73.1	72.9	72.5	72.0	73.0	76.0	79.9	82.5	85.2	87.0	—
21	75.3	74.6	74.0	73.3	72.9	72.4	73.4	76.5	78.9	81.8	84.0	86.0	—
22	77.1	75.9	75.0	74.5	74.1	73.2	74.1	77.0	80.2	82.9	84.9	86.3	—
23	74.1	74.5	74.7	74.9	74.5	74.2	74.2	76.4	80.0	83.2	85.0	85.3	—
24	76.2	75.4	74.6	73.5	73.0	72.3	73.0	76.0	80.0	82.7	84.8	85.5	—
25	76.8	76.0	75.4	74.8	74.4	73.9	74.2	76.7	80.6	83.0	83.9	86.1	—
26	74.8	74.2	73.2	73.0	73.2	73.4	73.8	76.6	79.4	81.9	84.2	86.5	—
27	76.3	75.8	75.1	74.4	73.7	73.3	74.0	77.3	80.6	82.8	84.0	84.8	—
28	76.0	75.3	74.6	74.2	73.8	73.2	74.0	77.2	80.9	83.4	85.1	85.0	—
29	76.8	76.0	75.0	74.3	74.0	73.4	74.0	77.2	80.0	82.0	83.4	83.2	—
30	72.4	72.4	72.2	72.0	72.0	71.6	72.2	73.9	75.5	78.5	82.9	82.5	—
31	76.1	75.3	74.8	74.2	74.0	73.5	73.9	75.5	78.4	80.5	83.4	85.0	—
Hourly Means.	74.87	74.26	73.72	73.26	72.95	72.60	73.07	75.42	78.58	81.42	83.59	85.01	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST. 1	85.2	86.0	85.4	82.4	82.4	81.3	80.0	79.0	77.0	75.8	74.8	74.8	78.57
2	84.6	84.8	84.1	83.0	82.1	80.8	79.3	77.4	76.0	75.1	74.1	73.9	77.93
3	84.7	84.4	83.9	83.9	83.2	81.6	80.2	78.7	78.0	77.5	77.4	77.3	78.21
4	85.5	85.8	85.0	84.0	83.1	81.1	79.9	78.6	77.5	77.0	76.1	74.8	78.96
5	86.7	85.8	86.2	84.8	83.8	82.4	80.7	79.0	77.7	76.7	75.9	75.0	78.87
6	85.2	86.8	86.0	85.0	83.1	81.1	79.8	78.8	77.2	77.0	76.3	74.2	78.26
7	85.0	84.4	83.8	82.9	82.4	81.2	79.8	78.4	78.0	77.6	77.1	76.2	78.39
8	83.6	85.0	83.0	83.6	82.0	81.1	80.3	78.9	78.5	74.0	72.7	72.6	78.10
9	82.9	83.4	83.3	82.4	81.3	80.0	79.0	78.0	76.8	76.4	75.7	75.9	76.84
10	84.0	84.0	84.5	84.3	82.9	81.1	79.5	77.7	76.9	76.1	75.2	75.2	77.63
11	85.6	84.5	85.0	84.4	83.2	81.2	80.0	79.4	77.6	76.0	75.0	73.9	77.84
12	86.2	87.0	84.5	83.5	82.1	81.2	80.0	79.1	78.3	77.9	77.1	76.1	78.35
13	87.3	87.7	85.7	84.1	82.7	81.4	79.5	78.0	77.4	76.4	75.5	74.7	78.76
14	85.0	85.0	85.0	84.0	83.2	81.7	80.5	78.8	78.0	77.2	76.4	75.3	78.53
15	84.2	84.5	83.8	81.2	81.7	80.6	79.4	78.5	78.1	78.0	76.7	76.4	78.17
16	86.0	86.0	85.6	85.2	84.2	82.0	80.1	79.0	78.0	77.0	76.3	75.7	78.68
17	86.3	85.0	86.0	86.2	84.3	83.0	82.0	81.1	80.9	79.1	78.1	77.1	79.57
18	85.0	83.7	85.3	83.8	83.0	82.0	80.0	78.0	77.4	77.1	76.7	75.7	79.25
19	87.0	86.0	85.2	84.3	83.5	82.0	80.2	78.8	77.0	77.0	76.1	75.3	78.90
20	88.5	86.5	85.3	84.7	83.0	81.7	80.8	79.3	78.0	77.4	76.9	76.3	79.21
21	87.1	85.1	85.3	85.0	83.9	82.0	81.0	80.2	79.5	79.1	78.8	78.0	79.50
22	86.8	87.6	85.6	84.1	83.5	82.4	82.0	81.5	78.0	77.0	76.2	75.0	79.79
23	86.3	86.3	84.4	83.8	83.0	82.0	80.9	80.5	80.0	79.4	78.7	77.2	79.73
24	85.5	85.0	84.7	83.6	82.9	82.0	81.3	80.8	80.2	79.3	78.5	78.0	79.53
25	85.8	86.0	85.5	84.3	83.5	82.2	80.9	79.0	77.8	76.1	76.4	75.9	79.55
26	86.2	85.2	83.0	82.1	81.1	80.7	80.3	79.7	79.0	78.0	77.1	76.6	78.88
27	86.0	85.1	84.7	83.7	82.8	81.5	81.0	80.0	79.0	78.1	77.5	77.1	79.53
28	85.3	86.1	86.3	85.5	84.0	82.7	81.3	79.9	79.2	79.0	78.9	77.6	79.94
29	83.8	82.7	82.3	81.5	80.5	80.3	75.1	73.2	73.0	73.0	73.0	72.5	77.51
30	82.7	85.7	85.4	84.7	82.2	81.2	80.4	79.1	78.5	78.3	77.3	77.1	77.95
31	85.6	85.1	83.6	83.0	81.6	75.5	72.7	72.9	73.0	72.1	71.2	71.2	77.17
Hourly Means.	85.47	85.36	84.75	83.84	82.78	81.32	79.93	78.75	77.79	76.96	76.25	75.57	78.65

RELATIVE HUMIDITY OF THE A

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8		10	11	12	—
AUGUST.	1	913	912	921	946	929	936	903	865	0	686	674	598	—
	2	930	921	921	929	929	946	936	87[illegible]	,78	739	675	622	—
	3	946	946	955	964	955	946	928	8[illegible]	814	732	708	674	—
	4	898	914	914	922	921	929	920	880	727	627	577	554	—
	5	912	920	929	937	929	929	929	872	733	621	553	552	—
	6	912	903	911	928	928	935	936	903	818	718	657	593	—
	7	887	895	894	902	902	929	929	880	783	710	653	598	—
	8	880	888	878	861	876	876	869	814	746	690	635	613	—
	9	841	831	830	829	837	818	819	783	694	635	610	560	—
	10	897	937	937	928	927	918	874	851	814	637	563	555	—
	11	861	868	875	908	881	899	881	818	727	639	572	515	—
	12	868	867	875	866	849	849	849	812	720	633	585	544	—
	13	822	829	811	792	783	790	751	712	672	600	564	545	-
	14	861	845	837	843	834	825	834	812	751	650	607	592	—
	15	888	887	886	877	876	852	836	822	779	763	647	620	—
	16	822	869	886	910	910	910	902	879	818	735	590	566	—
	17	863	888	896	871	863	871	871	848	804	778	733	636	—
	18	899	898	930	947	938	929	913	828	767	657	607	602	—
	19	904	921	911	910	902	893	876	808	727	635	585	551	—
	20	879	895	902	902	910	919	885	840	757	648	565	524	—
	21	880	888	895	911	910	910	877	794	735	671	628	617	—
	22	859	856	846	853	861	876	837	756	694	635	581	588	—
	23	878	888	879	813	804	796	812	740	679	612	569	576	-
	24	873	872	896	911	911	910	876	808	736	635	593	634	—
	25	842	848	863	879	878	895	887	850	709	643	639	577	—
	26	830	820	852	860	860	852	853	794	727	680	609	570	—
	27	915	915	930	939	947	937	912	859	738	635	634	643	—
	28	898	914	930	921	921	929	912	859	746	678	620	671	—
	29	866	873	897	913	912	920	896	812	752	686	645	697	—
	30	955	946	955	955	955	964	946	930	905	807	655	668	—
	31	915	939	930	947	947	938	929	880	807	738	652	626	—
Hourly Means.		884	890	896	899	896	898	883	835	756	676	619	596	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	639	610	627	710	702	741	795	838	851	864	897	897	801
	2	663	664	654	684	708	768	816	797	906	922	930	921	818
	3	669	681	627	613	643	698	743	807	836	851	859	843	806
	4	609	604	632	687	684	739	765	821	851	866	898	897	785
	5	518	617	617	625	653	682	760	793	835	857	881	904	773
	6	576	582	609	637	684	711	765	784	835	843	833	853	786
	7	625	616	639	670	673	690	721	783	782	805	827	873	778
	8	639	625	670	664	693	725	766	815	830	878	902	859	779
	9	578	567	606	668	684	729	740	751	826	849	872	864	743
	10	540	577	536	554	578	734	712	780	817	832	863	855	759
	11	489	573	514	535	624	642	693	705	766	808	839	861	729
	12	527	496	623	632	672	711	743	778	807	813	773	801	737
	13	492	523	554	608	628	663	733	790	804	833	864	862	709
	14	569	582	587	621	630	678	694	761	790	811	825	864	738
	15	586	581	648	691	713	738	786	822	845	836	874	841	779
	16	586	586	603	620	641	714	766	785	821	834	833	841	768
	17	617	637	623	649	707	752	778	798	790	808	829	859	782
	18	651	678	652	678	703	749	795	797	835	851	866	898	795
	19	515	593	588	622	664	686	743	769	818	818	832	863	756
	20	540	572	596	612	671	735	775	816	836	859	883	882	767
	21	567	659	595	606	651	728	790	781	802	801	808	837	765
	22	602	586	653	687	651	709	728	740	775	788	817	855	743
	23	570	582	611	665	670	671	724	745	765	801	814	866	730
	24	628	638	643	651	648	693	733	760	781	808	814	820	761
	25	616	592	660	636	665	715	746	793	820	848	785	792	757
	26	606	633	684	743	769	797	826	840	854	884	900	916	782
	27	636	645	636	678	731	770	783	817	847	868	875	867	798
	28	672	637	570	621	628	668	718	765	793	807	815	852	773
	29	673	696	737	770	811	818	846	911	920	937	955	955	829
	30	649	609	634	689	737	770	819	863	885	885	924	900	834
	31	609	665	698	717	756	832	910	937	946	936	954	954	840
Hourly Means.		595	610	623	653	680	724	765	798	828	845	859	869	774

DIRECTION OF THE WIND.

AUGUST.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	ESE	ESE	C	C	ESE	ESE	ESE	SSE	S	E	E	E
2	SSE	SSE	SSE	C	SSE	SSE	SSE	SSE	S	SSW	ESE	ESE
3	C	SW	C	SW	SW	SW	SW	SW	SW	E	ENE	NE
4	C	NE	NE	C	C	C	NE	NE	ENE	E	SE	E
5	C	C	C	C	C	C	ENE	ENE	ESE	E	SE	SE
6	C	C	E	C	C	C	E	ESE	ESE	ESE	SE	ENE
7	SSW	SSW	C	C	C	SSW	SSW	SW	WSW	W	NW	NW
8	N	N	N	N	N	N	NNW	WNW	WSW	W	WSW	WNW
9	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	WSW	WNW
10	N	N	NNW	NNW	NNW	NNW	NNW	NE	ESE	ESE	ESE	ESE
11	C	C	C	C	C	C	C	NE	S	S	SE	E
12	C	NNW	NNW	NNW	NW	WSW	WSW	SW	SSW	S	S	S
13	WSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	SSE
14	NE	NE	ENE	SE	S	S	C	C	SE	SE	NE	NNE
15	C	NNE	NNE	NNE	NNE	NNE	C	C	NNE	NNE	E	SSE
16	C	C	C	C	C	ESE	ESE	ESE	ESE	E	ESE	E
17	C	C	C	C	C	C	C	C	E	E	SE	S
18	C	C	C	C	C	C	ENE	SSW	SW	SW	E	ENE
19	C	C	C	S	S	S	S	S	S	SW	SE	ESE
20	C	C	C	C	C	C	NE	SSE	SSW	SSW	SSW	ESE
21	C	C	C	C	C	C	NE	NE	N	NW	WNW	N
22	C	NE	NE	NE	NE	NE	E	S	SSW	SSW	SSW	N
23	SW	SW	SW	SW	SW	C	SW	SW	SW	SW	E	N
24	C	C	C	C	C	C	C	NNE	NNE	ENE	E	N
25	NE	NNE	C	C	C	C	NNE	NE	ESE	SE	SSW	NNE
26	W	W	WSW	C	C	C	C	WSW	SSW	SW	SSW	SW
27	C	C	C	C	C	C	C	NE	E	ESE	E	NE
28	C	C	C	C	C	C	C	NE	ESE	E	ENE	ENE
29	C	C	C	C	C	C	NE	ENE	SE	SE	ESE	ENE
30	C	C	C	C	C	C	C	C	SW	ESE	E	E
31	C	C	C	C	C	C	NNE	NNE	ENE	E	NE	SW

AUGUST.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	N	NNE	NNE	NE	NE	NE	NE	NE	ENE	SSE	SSE	SSE
2	NE	NE	NNE	N	N	NNW	NNW	WSW	C	SW	SW	C
3	NE	NE	NE	NE	NE	NE	NE	C	NE	NE	NE	C
4	NNE	NE	NE	NE	ENE	ENE	ENE	C	ENE	ENE	ENE	ENE
5	E	ENE	NE	NE	ENE	E	E	E	C	C	C	C
6	NE	ENE	NE	NE	ENE	ENE	ENE	ENE	C	ENE	E	SSW
7	W	NNE	N	N	N	N	C	N	N	C	C	C
8	NNE	NNE	N	NNE	NNW	N	N	C	N	SSW	SSW	SSW
9	W	N	N	N	N	N	N	N	N	N	C	N
10	SE	NNE	NNE	NNE	NE	C	C	C	C	C	C	C
11	E	NE	NE	NE	N	N	C	C	C	C	C	C
12	S	E	NE	NNE	N	NNE	C	C	C	NNE	NW	WSW
13	SE	NE	NE	NE	NNE	NE	C	C	C	C	C	NE
14	NNE	N	NNE	NNE	NE	NNE	NNE	C	C	C	C	C
15	SSE	ESE	NE	ESE	C	C	C	C	C	C	C	ESE
16	E	E	E	E	E	E	E	E	E	E	E	C
17	E	NNE	NNE	NE	NE	NE	NE	ENE	ENE	ENE	C	C
18	NE	NNE	NE	NE	NE	C	S	S	C	C	C	C
19	E	NE	NNE	NNE	NE	NE	NE	C	C	C	NE	C
20	NE	NNE	NNE	NE	NE	NE	NE	C	C	C	NE	C
21	NE	NNE	NNE	NE	NE	NE	NE	C	C	C	C	C
22	NNE	N	NE	N	N	NNE	C	NNE	WSW	SW	SW	SW
23	N	NE	NNE	NNE	NNE	NNE	C	C	C	C	C	C
24	NNE	NE	NNE	NE	NNE	C	C	C	NE	NE	NE	NE
25	NNE	N	N	NW	WNW	WNW	WNW	W	WNW	WNW	W	C
26	NNE	NE	NE	NE	NE	NE	C	C	C	C	C	C
27	NNE	NNE	NNE	N	NE	NE	NE	NE	C	C	C	C
28	NE	NE	NE	NE	ENE	NE	C	C	C	C	C	C
29	NE	NE	NE	NE	NNE	NE	SW	SW	C	C	C	C
30	ESE	ESE	NE	NNE	NNE	NNE	NNE	C	C	C	C	C
31	SW	N	NE	NNE	N	S	SSW	SSW	SSW	SSW	SSW	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

AUGUST.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.8	0.8	0.0	0.0	0.8	1.6	2.4	2.4	3.2	5.6	8.9	10.5	—
2	3.2	1.6	1.6	0.0	0.8	0.8	1.6	3.2	4.8	5.6	4.8	5.6	—
3	0.0	0.8	0.0	1.6	0.8	1.6	0.8	0.8	2.4	4.8	6.4	8.9	—
4	0.0	0.8	0.8	0.0	0.0	0.0	0.8	1.6	6.4	12.1	8.0	9.7	—
5	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	8.0	11.3	11.3	12.1	—
6	0.0	0.0	0.8	0.0	0.0	0.0	0.8	1.6	4.0	8.9	11.3	8.0	—
7	3.2	0.8	0.0	0.0	0.0	0.8	0.8	1.6	4.8	4.0	4.8	4.0	—
8	1.6	1.6	3.2	3.2	3.2	4.0	3.2	4.0	5.6	4.0	4.0	5.6	—
9	4.0	5.6	6.4	6.4	4.8	6.4	6.4	7.2	9.7	8.0	3.2	2.4	—
10	0.8	1.6	1.6	0.8	0.8	1.6	2.4	3.2	4.0	12.1	8.9	6.4	—
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.0	4.8	4.8	4.0	—
12	0.0	0.8	0.8	0.8	0.8	0.8	0.8	2.4	4.8	3.2	4.8	5.6	—
13	1.6	1.6	3.2	3.2	4.8	5.6	6.4	3.2	4.0	4.8	3.2	2.4	—
14	0.8	0.8	1.6	1.6	3.2	1.6	0.0	0.0	1.6	3.2	7.2	8.9	—
15	0.0	0.8	1.6	1.6	1.6	0.8	0.0	0.0	1.6	1.6	1.6	1.6	—
16	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.4	9.7	16.9	15.3	—
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	3.2	—
18	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.2	1.6	1.6	2.4	4.8	—
19	0.0	0.0	0.0	0.8	0.8	0.8	1.6	2.4	3.2	4.0	4.8	5.6	—
20	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.0	4.8	4.0	6.4	—
21	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	3.2	3.2	4.0	—
22	0.0	0.8	0.8	1.6	0.8	1.6	3.2	4.0	3.2	3.2	2.4	4.8	—
23	1.6	0.8	1.6	0.8	1.6	0.0	0.8	0.8	1.6	2.4	4.8	4.8	—
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	3.2	8.0	10.5	—
25	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	3.2	2.4	4.8	12.1	—
26	0.8	1.6	0.8	0.0	0.0	0.0	0.0	2.4	3.2	4.8	4.8	4.0	—
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.0	4.8	3.2	10.5	—
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	9.7	11.3	12.1	9.7	—
29	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	1.6	2.4	4.8	—
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	11.3	12.9	—
31	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6	2.4	1.6	—
Hourly Means.	0.62	0.70	0.80	0.72	0.80	0.93	1.34	1.99	3.80	5.13	5.91	6.80	—

AUGUST.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	13.7	14.5	13.7	14.5	12.1	4.8	0.8	3.2	4.8	3.2	3.2	1.6	5.30
2	11.3	12.9	12.9	9.7	8.0	3.2	3.2	2.4	0.0	0.8	1.6	0.0	4.15
3	11.3	10.5	11.3	11.3	8.9	3.2	4.8	0.0	0.8	1.6	1.6	0.0	3.93
4	12.1	18.5	18.5	19.3	12.9	6.4	1.6	0.0	0.8	1.6	1.6	1.6	5.63
5	13.7	14.5	17.7	18.5	12.9	5.6	1.6	1.6	0.0	0.0	0.0	0.0	5.47
6	10.5	15.3	12.9	14.5	14.5	9.7	4.8	1.6	0.0	1.6	5.6	9.7	5.67
7	5.6	12.1	11.3	9.7	8.0	2.4	0.0	0.8	0.8	0.0	0.0	0.0	3.15
8	8.0	11.3	11.3	9.7	6.4	4.8	0.8	0.0	2.4	8.0	3.2	6.4	4.81
9	4.0	8.9	11.3	9.7	9.7	4.0	1.6	0.8	0.8	0.8	0.0	0.8	5.12
10	3.2	9.7	9.7	8.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.35
11	4.8	13.7	8.9	9.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.51
12	5.6	5.6	12.1	8.9	5.6	0.8	0.0	0.0	0.0	0.8	1.6	0.8	2.81
13	4.8	9.7	13.7	11.3	6.4	0.8	0.0	0.0	0.0	0.0	0.0	0.8	3.81
14	10.5	10.5	9.7	11.3	10.5	3.2	1.6	0.0	0.0	0.0	0.0	0.0	3.66
15	1.6	1.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.00
16	13.7	12.9	9.7	11.3	10.5	5.6	4.8	3.2	1.6	0.8	0.8	0.0	5.10
17	4.8	11.3	11.3	10.5	8.0	4.0	1.6	0.8	0.8	0.8	0.0	0.0	2.58
18	12.9	15.3	14.5	12.1	10.5	0.0	1.6	0.8	0.0	0.0	0.0	0.0	3.49
19	10.5	15.3	12.9	11.3	11.3	6.4	0.8	0.0	0.0	0.0	0.8	0.0	3.89
20	7.2	16.1	15.3	15.3	11.3	4.8	0.8	0.0	0.0	0.0	0.8	0.0	3.98
21	11.3	16.1	14.5	14.5	9.7	7.2	3.2	0.0	0.0	0.0	0.0	0.0	3.82
22	8.0	9.7	15.3	11.3	4.8	1.6	0.0	1.6	4.8	3.2	1.6	1.6	3.75
23	7.2	12.1	11.3	8.0	8.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.94
24	12.9	11.3	10.5	6.4	3.2	0.0	0.0	0.0	0.8	1.6	0.8	0.8	3.22
25	9.7	12.1	14.5	10.5	7.2	3.2	1.6	1.6	0.8	0.8	1.6	0.0	3.72
26	11.3	14.5	15.3	11.3	10.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.69
27	12.9	12.1	11.3	11.3	9.7	4.0	1.6	0.8	0.0	0.0	0.0	0.0	3.63
28	14.5	19.3	18.5	14.5	13.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	5.37
29	5.6	7.2	11.3	12.1	6.4	4.8	9.7	1.6	0.0	0.0	0.0	0.0	2.98
30	9.7	9.7	9.7	9.7	9.7	4.0	1.6	0.0	0.0	0.0	0.0	0.0	3.53
31	2.4	8.9	14.5	12.9	7.2	9.7	1.6	1.6	0.8	1.6	0.8	0.0	2.95
Hourly Means.	8.88	12.04	12.59	11.34	8.54	3.70	1.60	0.72	0.65	0.88	0.83	0.83	3.84

CLOUDS.

CLEAR = 0. OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	9	10	9	7	6	7	8	5	3	2	2	3	—
	2	3	2	2	2	2	3	6	4	3	5	4	5	—
	3	10	9	7	5	5	6	2	1	1	3	6	6	—
	4	1	10	7	2	2	2	6	6	0	2	2	6	—
	5	1	2	2	1	8	9	8	1	1	2	3	4	—
	6	0	1	1	1	2	2	3	5	5	2	5	9	—
	7	2	4	6	7	10	10	10	9	2	2	4	4	—
	8	9	9	7	5	5	6	8	7	4	7	7	7	—
	9	4	0	0	0	0	2	0	0	0	1	2	5	—
	10	3	6	7	9	10	9	8	5	4	2	5	3	—
	11	4	2	2	1	1	2	2	1	0	0	1	3	—
	12	1	2	3	1	1	3	2	1	1	2	3	3	—
	13	3	2	3	3	4	6	3	3	3	4	4	4	—
	14	0	1	1	1	0	2	6	3	3	2	5	5	—
	15	2	1	2	8	7	9	10	10	9	10	9	10	—
	16	3	2	3	5	5	6	8	9	9	9	7	9	—
	17	7	6	6	9	9	10	10	10	10	10	7	8	—
	18	5	2	3	5	6	6	2	1	1	3	4	5	—
	19	1	0	0	0	0	0	0	0	0	0	5	5	—
	20	2	1	1	3	2	7	1	0	0	0	2	5	—
	21	2	2	3	1	1	3	2	1	0	0	3	6	—
	22	3	4	3	3	2	4	2	1	0	1	3	5	—
	23	5	9	3	5	10	10	4	3	7	3	5	3	—
	24	0	0	0	0	0	0	0	0	0	0	5	1	—
	25	4	3	3	4	2	7	2	0	0	4	5	7	—
	26	3	2	2	4	6	10	7	8	4	3	4	5	—
	27	4	3	2	3	3	3	3	2	5	5	8	8	—
	28	5	5	3	1	2	4	3	2	2	4	7	9	—
	29	2	0	0	0	0	1	0	3	6	9	9	9	—
	30	5	6	7	7	6	8	10	10	10	9	7	8	—
	31	6	7	4	3	4	8	9	9	9	9	8	10	—
Hourly Means.		3.5	3.6	3.3	3.4	3.9	5.3	4.7	3.9	3.3	3.7	4.9	5.8	—

Mean Batavia Tme.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	3	3	5	3	3	3	9	9	10	7	9	9	6.0
	2	6	3	3	2	2	4	10	10	8	7	4	2	4.3
	3	4	2	1	0	1	2	2	7	9	10	10	7	4.8
	4	4	3	3	3	3	4	2	1	1	9	2	1	3.4
	5	7	7	5	5	7	4	3	1	1	1	1	1	3.5
	6	5	7	5	6	6	7	3	2	7	7	9	10	4.6
	7	7	9	8	5	4	2	1	6	5	10	9	4	5.8
	8	10	6	9	9	9	7	4	7	9	10	8	4	7.2
	9	7	6	6	6	7	7	3	4	7	5	9	7	3.7
	10	7	5	5	3	1	6	3	7	3	4	3	6	5.2
	11	4	3	1	1	1	4	9	9	9	7	5	5	3.2
	12	5	9	7	4	3	3	2	3	3	10	9	2	3.5
	13	6	4	2	4	3	3	2	2	3	2	1	1	3.1
	14	1	2	2	1	2	3	2	4	6	4	3	3	2.6
	15	7	7	9	7	7	6	4	8	9	7	6	6	7.1
	16	9	9	8	8	7	8	7	3	5	5	5	3	6.3
	17	5	6	3	3	4	9	10	10	10	10	4	1	7.4
	18	8	6	8	4	4	7	8	6	3	5	3	2	4.5
	19	7	6	3	3	4	5	2	2	4	6	5	3	2.5
	20	5	5	3	1	3	4	3	4	5	5	3	2	2.8
	21	6	2	0	0	0	1	9	7	7	9	7	9	3.4
	22	4	4	5	4	5	8	10	10	10	3	2	0	4.0
	23	3	3	3	1	2	3	8	8	9	7	3	2	5.0
	24	4	2	3	3	4	7	10	10	9	10	10	7	3.5
	25	4	3	2	9	7	9	9	3	8	8	4	5	4.7
	26	7	7	6	6	6	4	6	7	9	9	10	10	6.0
	27	5	4	3	2	2	4	6	4	2	0	7	3	3.8
	28	8	4	1	2	6	4	6	8	6	9	9	5	4.8
	29	8	8	9	10	10	10	10	10	10	10	10	8	6.3
	30	7	9	7	5	5	6	1	2	5	10	9	10	7.0
	31	10	10	10	10	10	10	10	10	10	10	10	7	8.5
Hourly Means.		5.9	5.3	4.7	4.2	4.5	5.3	5.6	5.9	6.5	7.0	6.1	4.7	4.79

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

AUGUST.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	11.0	10.3	11.0	10.3	8.4	9.0	11.0	8.4	7.7	4.6	4.6	3.9	—
2	4.6	5.2	4.6	6.5	6.5	7.1	9.7	6.5	5.9	2.6	2.6	2.6	—
3	9.0	7.1	6.5	6.5	—	—	8.4	—	—	2.6	3.3	3.3	—
4	9.7	8.4	8.4	7.7	7.1	—	13.6	10.3	5.2	2.0	2.0	2.0	—
5	7.1	6.5	7.7	7.1	9.7	10.3	11.6	11.0	3.3	1.3	0.0	0.7	—
6	—	11.0	10.3	12.3	9.7	15.5	17.5	13.6	8.4	2.6	2.6	1.3	—
7	3.3	4.6	5.2	5.2	5.2	3.3	2.6	4.6	3.3	0.0	2.0	0.7	—
8	10.3	6.5	5.2	5.9	5.9	4.6	5.9	7.1	6.5	2.6	0.7	2.0	—
9	7.1	7.1	6.5	6.5	5.9	7.1	9.7	8.4	8.4	6.5	5.9	5.2	—
10	11.6	12.3	11.6	11.0	8.4	6.5	8.4	7.7	3.9	2.0	2.6	3.3	—
11	6.5	5.9	6.5	9.7	7.1	7.1	12.3	9.0	5.9	4.6	3.9	2.6	—
12	8.4	6.5	7.7	5.9	4.6	3.9	5.2	5.9	5.2	3.3	2.6	3.3	—
13	3.9	3.3	3.3	3.9	4.6	4.6	5.2	—	—	2.6	2.0	3.3	—
14	5.2	5.2	4.6	5.2	4.6	4.6	5.9	10.3	5.9	5.2	3.3	2.6	—
15	12.9	9.7	7.7	7.1	7.7	6.5	9.7	6.5	9.0	7.1	3.3	3.9	—
16	9.0	9.7	11.6	20.0	15.5	10.3	8.4	8.4	8.4	7.7	— 1.9	— 1.3	—
17	11.0	12.3	12.3	10.3	7.7	6.5	9.0	3.3	— 0.6	3.3	2.0	3.3	—
18	11.6	8.4	9.7	7.7	12.9	11.6	11.6	4.6	4.6	3.9	2.6	— 0.6	—
19	7.7	8.4	7.1	6.5	6.5	5.2	5.2	4.6	2.6	0.7	2.6	1.3	—
20	6.5	6.5	5.2	4.6	11.0	5.9	7.7	4.6	0.7	1.3	1.3	0.0	—
21	—	5.2	4.6	5.9	5.9	9.7	1.3	3.9	2.6	0.7	0.7	0.0	—
22	6.5	5.2	4.6	3.9	4.6	3.3	3.3	2.0	2.0	—	—	—	—
23	5.9	5.9	3.9	4.6	3.9	N	— 5.8	2.6	2.0	— 2.6	— 4.5	0.7	—
24	8.4	11.0	9.7	8.4	7.7	5.9	4.6	3.3	1.3	1.3	2.0	0.0	—
25	4.6	5.2	4.6	3.9	4.6	5.2	2.6	2.0	2.6	0.7	— 0.6	— 2.6	—
26	2.6	2.6	2.0	3.3	3.9	2.6	4.6	7.1	3.3	1.3	2.6	3.3	—
27	6.5	6.5	8.4	8.4	6.5	4.6	10.3	7.7	1.3	0.0	0.0	0.7	—
28	9.7	10.3	7.7	5.9	7.1	6.5	12.3	7.1	2.0	0.0	— 1.3	0.0	—
29	7.7	9.0	9.7	8.4	8.4	9.0	6.5	—	—	—	—	—	—
30	—	—	—	—	—	—	—	14.2	9.7	2.0	1.3	2.0	—
31	3.3	5.9	7.7	6.5	7.1	5.9	11.0	6.5	0.7	1.3	0.7	1.3	—
Hourly Means.	7.6	7.4	7.2	7.3	7.2	6.8	7.6	6.8	4.4	2.5	1.7	1.7	—

AUGUST.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	3.9	3.9	—13.5	13.6	6.5	11.0	10.3	11.0	5.9	5.9	3.9	3.9	6.9
2	2.6	3.3	3.3	3.9	5.9	6.5	12.9	31.7	— 1.3	9.0	8.4	9.0	6.7
3	2.0	3.9	3.3	2.6	3.3	7.1	7.7	9.7	13.6	—	—	6.5	5.9
4	— 1.9	— 1.9	0.0	0.0	3.3	—	—	9.7	10.3	11.0	9.7	9.0	6.0
5	0.7	0.7	— 0.6	— 3.2	1.3	1.3	—	—	—	—	—	—	4.3
6	2.0	0.7	1.3	N	0.7	4.6	4.6	6.5	9.0	14.9	6.5	1.3	7.1
7	— 0.6	0.0	0.0	0.0	2.6	3.3	5.2	8.4	10.3	12.3	12.9	12.3	4.4
8	— 0.6	— 0.6	2.0	1.3	2.0	5.2	8.4	9.0	7.1	N	— 2.6	6.5	4.4
9	3.9	4.6	4.6	5.9	3.9	6.5	6.5	8.4	12.3	12.3	11.0	11.0	7.3
10	3.3	0.7	2.6	2.6	2.6	3.9	3.3	4.6	7.1	12.9	15.5	11.0	6.6
11	2.6	— 2.6	0.7	— 3.2	2.6	3.3	2.0	8.4	10.3	14.9	13.6	9.7	6.0
12	2.0	2.0	— 1.9	— 1.9	0.7	2.6	3.9	3.3	8.4	6.5	3.9	3.3	4.0
13	3.9	0.7	— 9.7	N	3.9	4.6	4.6	13.6	12.3	11.6	13.6	8.4	5.0
14	2.0	0.0	— 1.9	— 2.6	2.0	2.6	6.5	6.5	14.2	10.3	13.6	12.3	5.3
15	3.3	3.3	0.7	1.3	2.6	5.2	12.3	13.6	15.5	15.5	14.9	9.0	7.8
16	N	— 0.6	— 3.2	—11.0	— 0.6	1.3	5.2	6.5	7.1	—	—	—	5.5
17	0.7	— 1.9	— 0.6	N	0.7	1.3	3.3	3.3	6.5	5.9	8.4	11.0	5.2
18	— 1.9	— 1.9	— 1.9	— 2.6	2.0	2.0	3.3	1.3	3.9	4.6	5.2	6.5	4.5
19	1.3	— 0.6	— 1.9	— 0.6	— 0.6	0.7	1.3	3.3	8.4	9.0	7.1	7.1	3.9
20	— 1.3	0.7	— 5.8	— 6.5	—	—	—	—	—	—	—	—	2.7
21	— 1.9	— 3.2	— 1.3	— 1.3	— 0.6	1.3	3.9	3.9	5.9	4.6	5.2	6.5	2.8
22	—	— 1.9	— 4.5	— 3.2	— 1.3	1.3	2.0	5.9	— 0.6	2.6	3.3	5.2	2.2
23	— 1.3	— 1.9	— 5.8	— 1.9	— 0.6	2.0	2.0	2.6	5.9	9.0	10,3	12.3	2.1
24	0.7	— 0.6	— 0.6	0.7	— 1.9	2.6	3.9	6.5	6.5	4.6	3.9	4.6	3.9
25	— 3.9	— 3.2	— 6.5	— 9.7	— 1.3	7.1	1.3	3.3	3.3	2.6	2.6	3.3	1.3
26	— 0.6	— 1.9	— 3.2	— 0.6	3.3	5.2	5.9	7.7	11.6	8.4	7.1	8.4	3.8
27	— 0.6	0.7	— 0.6	0.7	1.3	2.6	5.2	6.5	8.4	9.0	11.6	11.0	4.9
28	— 1.3	— 1.9	— 5.8	— 3.9	0.0	1.3	2.6	3.9	5.9	11.6	11.0	11.0	4.2
29	—	—	—	—	—	—	—	—	—	—	—	—	8.4
30	2.6	1.3	0.7	— 6.5	3.3	3.3	5.2	7.1	6.5	5.2	2.0	4.6	3.8
31	1.3	0.0	— 1.9	1.3	1.3	N	N	N	3.3	5.2	9.0	9.0	4.1
Hourly Means.	0.8	0.6	— 1.7	— 0.9	1.7	3.7	5.1	7.6	7.8	8.8	8.1	7.9	4.88

BAROMETRIC PRESSURE.

BAROMETER AT 0°C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	9.44	8.98	8.78	8.68	8.89	9.26	9.66	10.11	10.38	10.25	9.99	9.54	—
	2	10.20	9.68	9.44	9.40	9.50	9.83	10.14	10.51	10.91	11.07	10.60	9.81	—
	3	10.83	10.55	10.06	9.94	10.10	10.31	10.88	11.05	11.34	11.18	10.57	9.88	—
	4	10.46	9.88	9.48	9.54	9.65	10.03	10.63	10.88	10.89	10.45	9.75	8.94	—
	5	9.50	9.07	8.71	8.81	9.06	9.18	9.79	9.90	10.02	9.73	9.05	8.56	—
	6	9.69	9.35	9.33	9.45	9.78	10.15	10.45	10.80	10.85	10.57	9.88	9.38	—
	7	10.10	9.88	9.84	9.89	9.91	10.14	10.61	10.94	10.96	10.64	9.83	8.98	—
	8	9.23	9.07	9.09	9.11	9.24	9.74	10.30	10.60	10.67	10.38	9.79	9.07	—
	9	9.44	9.22	9.12	8.96	9.04	9.48	9.73	10.02	10.18	10.07	9.42	8.34	—
	10	8.06	7.70	7.27	7.21	7.71	7.97	8.39	8.62	8.85	8.55	8.28	7.40	—
	11	7.94	7.20	7.21	7.52	7.76	8.22	8.65	8.80	8.94	8.73	7.87	7.11	—
	12	8.42	8.14	8.01	8.22	8.60	8.97	9.69	10.00	10.33	10.22	9.59	9.13	—
	13	10.05	9.79	9.50	9.57	9.78	10.28	10.93	11.93	11.95	12.03	11.85	10.83	—
	14	10.13	9.27	8.81	8.84	9.05	9.38	9.53	9.64	9.84	9.65	9.36	8.51	—
	15	8.90	8.43	7.90	8.27	8.42	9.03	9.51	9.88	10.06	10.10	9.74	8.67	—
	16	9.78	9.43	9.10	9.01	9.01	9.65	10.03	10.55	10.79	10.80	10.24	9.28	—
	17	10.47	9.78	9.63	9.94	9.85	10.70	11.06	11.69	11.58	11.44	11.18	10.48	—
	18	11.25	10.66	9.81	9.76	9.81	10.18	11.00	11.70	11.85	11.75	11.20	10.43	—
	19	10.45	10.05	9.95	9.63	9.76	10.34	10.86	11.35	11.60	11.47	10.78	10.40	—
	20	10.39	9.90	9.45	9.46	9.81	10.06	10.66	10.80	10.88	10.60	9.75	9.13	—
	21	9.50	9.22	9.07	8.97	8.98	9.38	9.63	9.85	10.09	9.93	9.29	8.78	—
	22	8.94	8.74	8.79	8.85	8.95	9.38	9.77	10.54	10.84	10.67	10.36	9.56	—
	23	9.95	9.48	9.26	8.93	9.35	9.74	10.56	10.93	11.40	11.12	10.53	9.72	—
	24	9.65	9.09	8.65	8.46	8.68	9.26	9.64	9.86	10.19	10.00	9.53	8.80	—
	25	8.82	8.23	7.95	8.01	8.26	8.96	9.36	9.96	10.24	10.08	9.79	8.97	—
	26	9.00	8.86	8.77	8.88	9.03	9.69	10.39	10.99	11.18	10.81	10.07	9.17	—
	27	9.80	9.53	9.44	9.81	10.43	10.74	11.34	11.70	11.99	11.85	11.38	10.72	—
	28	11.50	11.06	10.83	10.85	10.96	11.58	12.20	12.80	12.79	12.63	12.20	11.68	—
	29	10.90	10.26	10.03	10.20	10.48	10.75	11.34	11.91	11.94	11.70	10.96	10.29	—
	30	10.36	9.86	9.63	9.80	9.96	10.38	10.90	11.31	11.43	11.39	11.03	10.19	—
Hourly Means.		9.77	9.35	9.10	9.13	9.33	9.76	10.25	10.65	10.83	10.66	10.13	9.39	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	8.83	8.04	7.63	7.70	7.88	8.21	8.70	9.43	9.90	10.28	10.60	10.43	9.23
	2	9.24	8.76	8.49	8.21	8.48	8.90	9.57	10.35	10.69	11.13	11.23	11.10	9.87
	3	9.16	8.42	8.33	8.22	8.53	8.73	9.40	9.82	10.62	11.25	11.20	10.90	10.04
	4	8.19	7.53	7.17	7.01	7.14	7.70	8.39	9.30	9.83	10.65	10.60	10.03	9.34
	5	7.88	7.60	7.36	7.11	7.47	7.80	8.61	9.20	9.73	9.79	9.95	9.92	8.91
	6	8.70	8.08	7.65	7.50	7.93	8.42	9.05	9.58	9.97	10.34	10.63	10.37	9.50
	7	7.89	7.34	7.17	7.19	7.51	7.98	8.43	8.92	9.39	9.63	9.70	9.58	9.27
	8	8.47	7.79	7.23	7.01	7.22	7.47	7.95	8.52	9.11	9.42	9.73	9.82	9.00
	9	7.51	6.78	6.44	6.24	6.58	7.08	7.92	8.54	8.68	8.94	9.05	8.78	8.57
	10	6.79	6.18	5.78	5.63	5.94	6.41	7.48	8.23	8.70	8.69	8.68	8.56	7.63
	11	6.76	6.23	5.91	6.11	6.46	7.18	7.67	8.37	8.60	8.96	9.27	8.96	7.77
	12	8.43	7.69	7.42	7.64	8.19	8.98	9.74	10.24	10.53	10.72	10.49	10.43	9.16
	13	10.18	9.48	8.88	8.59	8.71	9.23	9.73	10.02	10.68	11.02	11.19	10.70	10.29
	14	7.91	7.19	6.78	6.63	7.14	8.06	8.93	9.19	9.94	10.13	10.00	9.79	8.90
	15	8.38	7.69	7.23	7.23	7.52	7.88	8.78	9.20	9.70	9.90	10.04	9.93	8.85
	16	8.58	7.88	7.73	7.59	8.23	8.60	9.47	9.92	10.43	10.85	10.99	10.80	9.53
	17	9.41	8.89	8.72	8.43	9.00	9.42	10.18	10.87	11.62	11.72	11.79	11.60	10.39
	18	9.72	9.08	8.36	8.11	8.69	9.29	9.75	10.34	10.69	10.79	10.85	10.60	10.24
	19	10.04	9.44	8.84	8.51	8.83	9.18	9.98	10.58	10.74	10.93	11.04	11.05	10.24
	20	8.41	7.87	7.46	7.31	7.81	8.80	9.65	9.70	10.40	10.48	10.39	10.05	9.55
	21	8.00	7.33	7.03	7.19	7.02	7.87	8.53	8.84	9.60	9.69	9.69	9.62	8.88
	22	8.92	8.16	8.11	7.94	8.46	8.65	9.69	9.89	10.23	10.67	10.60	10.03	9.45
	23	9.24	8.59	8.19	8.26	8.30	8.99	9.36	10.34	10.22	10.67	10.29	9.99	9.73
	24	7.97	7.12	7.61	7.90	8.15	8.82	9.16	9.22	9.46	9.46	9.40	9.16	8.97
	25	8.55	8.09	7.63	7.73	8.40	8.59	9.20	9.53	9.86	9.60	9.56	9.53	8.95
	26	8.57	8.20	7.64	7.54	8.10	8.89	9.23	9.69	10.08	10.64	10.48	10.17	9.42
	27	9.88	9.38	9.03	9.03	9.34	10.33	10.68	11.43	11.73	12.05	12.05	11.88	10.65
	28	10.81	10.09	9.82	9.67	9.88	10.48	10.92	11.32	11.64	11.90	11.59	11.30	11.27
	29	9.63	8.93	8.34	8.38	8.94	9.59	9.78	10.60	10.87	11.30	11.21	10.89	10.38
	30	9.56	8.86	8.33	8.08	7.99	8.36	8.85	9.53	10.28	10.74	10.75	10.27	9.91
Hourly Means.		8.72	8.09	7.73	7.66	7.99	8.53	9.15	9.69	10.13	10.41	10.43	10.21	9.46

STANDARD THERMOMETER.

SEPTEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	71.3	71.3	70.9	71.0	70.7	70.7	71.2	73.1	78.0	80.3	82.3	83.1	—
2	75.0	74.8	74.2	73.8	72.8	72.7	73.5	77.4	80.2	81.3	83.4	84.6	—
3	75.5	73.1	73.0	73.0	73.1	73.1	73.2	75.3	77.5	79.5	81.9	83.2	—
4	73.7	73.3	73.3	73.3	72.8	72.3	73.0	74.8	78.6	81.2	83.2	85.0	—
5	72.8	71.8	71.2	70.4	70.1	69.8	70.7	73.6	77.6	80.9	82.4	84.6	—
6	76.0	75.3	74.5	73.7	73.3	72 9	73.1	75.3	78.0	80.3	81.2	83.0	—
7	74.5	74.4	74.0	73.0	72.4	72.0	72.6	75.4	79.1	82.0	83.4	85.1	—
8	77.1	77.0	77.0	76.6	75.6	75.1	75.5	76.5	79.2	80.7	82.0	83.2	—
9	77.8	77.6	75.3	75.3	75.1	75.3	76.0	76.6	79.5	81.2	83.2	84.2	—
10	77.5	77.1	76.3	75.8	75.0	74.4	75.3	77.8	80.4	82.7	84.4	85.7	—
11	76.0	75.6	75.0	74.1	73.7	73.1	73.7	76.6	80.2	82.9	85.0	87.2	—
12	76.8	76.4	76.2	75.6	75.2	74.2	75.0	77.6	81.1	83.5	85.3	85.9	—
13	76.0	75.7	76.0	75.8	75.8	76.1	76.0	76.5	79.0	80.0	80.0	81.3	—
14	76.3	75.7	75.0	74.6	74.4	73.9	75.0	78.0	81.2	84.0	85.1	86.1	—
15	74.3	74.1	73.8	73.8	73.8	73.5	74.2	76.0	79.4	81.8	84.2	85.4	—
16	74.9	74.9	74.7	74.3	74.0	73.7	75.0	77.5	81.1	83.3	85.7	84.9	—
17	74.3	74.5	74.1	73.9	74.0	73.8	74.0	75.2	77.1	80.5	81.8	84.2	—
18	75.3	74.5	74.1	74.0	73.8	73.6	73.8	75.2	78.2	80.9	83.2	84.4	—
19	75.2	75.0	74.3	73.7	73.0	72.8	73.3	75.5	79.1	81.0	82.4	79.0	—
20	74.6	74.6	74.4	74.3	74.1	74.1	74.5	75.3	77.7	81.0	83.1	83.5	—
21	74.7	74.7	74.7	74.5	74.5	74.1	74.7	77.5	80.6	82.1	83.5	83.6	—
22	76.0	76.0	76.0	76.2	76.2	76.2	77.0	78.7	80.9	82.5	83.0	84.6	—
23	74.1	74.1	73.9	73.4	73.1	73.1	73.8	76.7	79.5	81.0	83.5	84.5	—
24	74.7	74.5	74.0	73.5	73.3	73.2	75.8	79.0	81.0	82.2	84.6	84.0	—
25	73.5	73.1	72.8	72.4	72.7	72.9	73.7	75.0	76.4	78.2	78.5	79.4	—
26	73.0	72.3	71.9	71.9	71.5	71.2	71.9	75.0	77.6	80.5	82.2	84.5	—
27	75.8	75.0	74.5	74.5	74.5	74.1	75.0	77.5	79.7	82.0	82.0	83.8	—
28	75.2	74.8	74.4	74.0	73.8	73.4	73.8	75.0	79.0	81.1	82.7	82.7	—
29	75.6	75.2	74.6	74.0	73.6	73.4	75.0	77.0	81.0	83.0	85.0	85.7	—
30	73.0	73.0	72.7	72.9	72.7	72.2	73.0	76.5	80.4	83.1	85.5	87.6	—
													—
Hourly Means.	75.02	74.65	74.23	73.91	73.62	73.36	74.08	76.24	79.28	81.49	83.12	84.13	—

SEPTEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	84.0	84.4	83.2	82.0	81.0	80.3	78.5	77.6	77.2	77.2	76.5	76.0	77.16
2	83.0	84.2	82.8	82.8	82.0	81.0	80.3	79.5	77.7	76.8	76.4	75.9	78.59
3	84.0	84.5	82.9	82.0	81.2	80.6	80.2	79.9	75.2	74.8	73.9	73.6	77.68
4	86.0	85.0	83.0	82.7	82.0	81.0	80.2	75.4	74.9	74.5	74.4	74.3	77.83
5	86.3	85.0	83.3	83.0	82.1	81.0	79.4	78.8	78.2	77.9	77.8	77.0	77.74
6	84.5	84.5	84.3	83.1	82.0	81.0	80.0	79.0	78.0	77.1	76.1	75.1	78.39
7	86.4	86.6	85.2	83.9	82.9	81.6	81.0	80.5	79.0	78.6	78.2	77.6	79.14
8	84.0	84.2	83.8	82.8	82.8	81.8	81.2	80.8	80.4	80.0	79.7	78.7	79.82
9	85.0	85.5	85.0	83.9	83.1	82.0	81.5	81.0	80.3	79.9	78.9	78.4	80.07
10	86.2	86.0	85.2	84.0	83.0	82.0	80.5	79.9	79.0	78.0	77.3	76.6	80.00
11	86.2	85.7	84.3	83.3	82.6	82.1	81.0	79.4	78.2	77.7	77.2	77.0	79.49
12	87.1	85.5	85.3	84.0	83.0	81.2	79.4	78.6	78.1	77.9	76.9	76.4	79.84
13	82.0	83.5	84.3	84.5	83.4	82.2	81.0	79.8	78.6	78.2	77.4	77.0	79.17
14	85.7	85.5	85.1	84.5	83.2	79.7	77.3	76.4	76.4	76.1	76.0	74.9	79.17
15	85.6	84.0	83.0	82.2	81.8	80.6	78.9	77.8	77.0	76.0	75.6	75.0	78.41
16	87.0	87.2	85.0	85.3	78.0	77.1	75.5	75.5	75.7	75.2	75.5	75.0	78.58
17	85.1	84.2	77.3	79.5	80.0	79.4	78.9	76.7	75.8	75.6	75.5	75.5	77.54
18	85.8	84.1	84.4	83.5	82.4	80.9	76.1	75.6	75.6	75.6	76.0	75.5	78.19
19	79.2	82.8	83.0	82.0	82.0	81.0	77.8	75.4	74.8	74.8	74.6	74.9	77.36
20	85.2	83.2	83.2	83.0	81.8	77.8	74.9	74.8	74.7	74.7	74.7	74.7	77.66
21	85.0	84.8	84.5	83.6	83.3	82.2	80.0	78.2	77.1	76.5	76.1	75.9	79.02
22	83.5	83.6	83.6	83.0	82.7	82.0	76.0	76.4	76.2	75.9	75.4	74.7	79.01
23	83.2	83.7	83.4	83.0	82.2	81.6	80.0	77.2	76.0	75.9	75.0	75.0	78.20
24	85.0	84.0	80.8	74.4	74.0	73.8	74.1	74.4	74.0	74.0	73.8	73.7	76.91
25	80.2	80.8	81.6	80.4	78.0	76.8	75.2	74.3	74.3	74.0	73.5	73.3	75.88
26	86.1	84.8	84.7	84.0	83.1	81.7	80.1	79.1	77.5	77.0	76.5	76.2	78.10
27	83.5	83.7	82.4	82.6	82.1	81.0	79.6	78.7	77.8	77.0	76.2	75.6	78.69
28	81.9	82.8	82.5	82.2	81.0	80.3	79.0	76.9	76.5	76.0	76.0	75.8	77.95
29	86.0	85.2	84.6	83.2	82.6	78.9	74.9	74.1	73.4	73.6	73.6	73.4	78.19
30	87.0	86.2	86.2	85.0	83.2	82.3	81.5	79.5	78.8	77.0	75.4	75.0	79.15
Hourly Means.	84.66	84.51	83.60	82.78	81.75	80.50	78.80	77.71	76.88	76.45	76.00	75.59	78.43

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	954	954	963	954	963	963	954	937	790	745	682	691	—
	2	939	930	913	921	946	920	920	852	753	727	665	676	—
	3	864	946	937	946	946	946	955	889	844	772	736	671	—
	4	947	955	946	946	946	955	937	888	791	703	703	605	—
	5	929	909	918	917	916	925	926	853	774	697	688	599	—
	6	898	897	896	894	911	910	902	847	820	701	733	643	—
	7	870	845	861	886	893	901	902	832	764	687	645	608	—
	8	900	900	900	882	889	914	905	891	824	775	729	704	—
	9	908	907	939	947	956	966	948	940	847	769	739	708	—
	10	883	875	890	905	888	887	847	797	745	689	623	654	—
	11	923	923	922	947	929	937	912	874	788	670	625	504	—
	12	906	906	915	923	922	930	914	852	755	645	595	586	—
	13	923	905	898	889	889	906	906	891	831	796	788	741	—
	14	906	915	930	930	930	938	930	844	748	667	677	630	—
	15	887	904	912	912	912	929	912	856	742	707	622	628	—
	16	930	930	913	930	947	947	913	835	725	664	542	644	—
	17	939	939	921	930	938	938	912	905	843	753	714	642	—
	18	947	956	947	956	965	965	956	914	837	739	678	696	—
	19	947	956	921	903	911	902	894	872	794	783	722	757	—
	20	947	956	956	947	965	965	930	905	829	761	671	685	—
	21	956	956	956	965	956	956	965	860	768	737	686	706	—
	22	915	915	931	932	948	948	883	838	805	731	725	702	—
	23	956	956	947	956	964	964	956	875	817	756	686	702	—
	24	922	921	938	929	929	937	856	792	768	742	637	686	—
	25	965	964	973	964	964	964	973	966	915	853	853	816	—
	26	955	964	964	955	973	963	955	888	835	710	635	580	—
	27	915	939	965	956	947	956	939	859	787	708	750	714	—
	28	930	930	930	921	921	938	930	922	816	762	717	738	—
	29	922	914	930	938	938	929	913	891	782	703	627	655	—
	30	955	955	955	946	937	955	929	850	745	618	549	517	—
Hourly Means.		925	927	930	931	935	938	922	874	796	726	681	663	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	654	663	704	736	768	796	846	884	907	907	924	923	844
	2	703	687	702	702	707	775	810	839	867	891	882	872	817
	3	654	649	683	714	747	774	774	787	897	913	921	938	829
	4	538	645	684	689	700	747	781	888	956	939	947	965	825
	5	563	651	677	697	700	717	801	822	829	844	884	866	796
	6	611	616	629	676	700	725	773	815	860	866	864	871	794
	7	582	577	595	666	696	719	761	788	838	846	876	884	772
	8	700	707	734	723	752	770	798	819	842	856	863	885	819
	9	731	699	658	686	703	742	770	812	841	855	878	877	826
	10	656	668	652	673	675	713	782	810	847	876	907	899	785
	11	624	609	629	671	695	721	761	809	846	876	900	891	791
	12	567	609	627	673	738	769	794	830	852	836	842	857	785
	13	750	699	663	657	685	721	754	795	830	845	867	891	813
	14	687	653	652	657	698	800	804	802	809	816	848	879	798
	15	609	721	704	722	742	789	846	867	883	899	905	930	814
	16	584	585	618	665	867	907	905	939	940	914	931	930	821
	17	646	668	907	878	887	847	885	882	915	923	923	923	861
	18	629	661	668	692	751	754	801	840	864	872	906	948	831
	19	863	774	767	750	757	790	867	922	947	956	930	939	859
	20	685	698	704	724	784	774	897	939	930	947	956	956	855
	21	697	717	722	713	725	764	781	807	843	866	890	906	829
	22	748	693	735	725	766	764	931	940	940	940	931	947	847
	23	753	734	705	746	750	777	841	843	849	856	871	905	840
	24	684	700	761	921	938	947	956	956	965	965	965	965	866
	25	781	782	770	804	908	906	922	947	956	947	947	956	908
	26	599	612	651	641	671	713	796	854	917	940	957	931	819
	27	726	720	722	716	736	783	855	869	892	907	923	931	842
	28	764	731	759	764	812	803	838	874	890	915	915	923	852
	29	636	659	696	739	758	793	913	930	929	947	938	938	834
	30	584	599	593	645	704	744	791	772	784	803	831	839	775
Hourly Means.		667	673	692	716	751	778	828	856	882	892	904	912	825

DIRECTION OF THE WIND.

SEPTEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	C	C	C	C	C	SE	E	SE	N
2	C	C	C	C	C	C	N	ESE	ESE	E	ENE	NE
3	S	SSW	SSW	C	C	C	SSW	SSW	SW	SW	SW	NW
4	C	C	C	C	C	C	SW	SW	SSW	S	SE	SE
5	C	C	W	W	W	W	W	W	W	WSW	SW	S
6	C	C	C	C	C	C	NNE	SSE	SSE	S	SSE	NE
7	N	N	W	C	C	C	W	W	W	WSW	W	WSW
8	C	C	C	C	C	C	C	N	NE	NNE	NNE	NNE
9	N	NNE	SSW	C	C	C	C	C	SSW	SE	SW	NNE
10	NE	NE	C	NE	NE	NE	ESE	SSW	SSW	S	SSE	NE
11	C	C	C	C	NE	C	NE	ENE	ESE	ESE	SE	ENE
12	C	C	C	C	C	C	ENE	ENE	ESE	SSE	E	SE
13	WNW	WNW	WNW	C	WNW	E	E	ENE	E	NE	NE	E
14	C	C	C	C	C	C	E	ESE	SE	E	NNE	NNE
15	S	S	S	C	C	S	S	S	S	ENE	NE	NE
16	C	C	C	C	C	C	WSW	WSW	SW	SW	E	N
17	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	ESE	ESE	NE
18	S	S	SSE	SSE	SSE	C	SSE	S	S	SSW	SE	NE
19	NW	NW	NW	NW	NW	NW	NW	NW	WNW	WSW	NW	E
20	SE	SE	SE	SE	SE	SE	C	SSE	S	SSW	ENE	ENE
21	WSW	WSW	WSW	WSW	WSW	C	WSW	SW	SSE	E	N	NE
22	C	C	N	NNE	NNE	NNE	NNE	C	NNE	E	ENE	NNE
23	SSE	SSE	SSE	C	C	C	SSE	S	S	S	E	E
24	C	C	SW	SW	C	C	SW	SSW	SW	SSW	N	NE
25	C	C	C	C	C	C	C	C	WSW	NNW	NE	NNE
26	C	C	C	C	C	C	WSW	W	W	SSW	ESE	ENE
27	NW	C	C	C	C	NW	NW	WNW	WNW	NNW	WNW	N
28	C	N	C	C	C	C	N	C	N	SE	ESE	NNE
29	NNE	NNE	C	C	NNE	NE	NE	C	ENE	E	E	N
30	WSW	C	WSW	WSW	WSW	WSW	WSW	SSW	S	S	SE	E

SEPTEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	N	N	NE	NNE	NNE	N	C	C	N	N	C	C
2	NNE	NE	NNE	NE	NE	NE	NE	NE	S	S	S	S
3	NNE	NNE	N	N	N	N	NNE	NNE	S	SW	SW	C
4	S	NNE	N	N	N	N	N	SW	SW	SW	WNW	WNW
5	E	NNE	N	N	N	NNE	C	C	C	C	C	NNE
6	NNE	NE	NNE	NNE	N	N	C	C	C	C	N	N
7	N	NNE	NNE	NNE	NNE	N	N	C	N	N	C	C
8	NE	NNE	NNE	N	NNE	NNE	N	C	C	C	N	N
9	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
10	NNE	NNE	NNE	NE	NE	NE	C	C	C	C	C	C
11	N	NNE	NNE	NE	NE	ENE	ENE	ENE	C	C	ENE	C
12	ENE	NE	NE	NE	NNW	NW	WNW	WNW	WNW	WNW	WNW	C
13	ENE	E	E	E	E	E	E	C	E	E	C	C
14	NNE	NNE	NE	NNE	NNE	SW	SSW	SSW	SSW	S	S	S
15	NNE	NNE	NNE	NNW	N	N	WSW	WSW	C	C	C	C
16	NNE	NNE	NNE	NW	ENE	ENE	NNW	NE	NE	ESE	SSE	SE
17	WNW	N	N	NNE	ENE	ENE	E	SE	SE	SE	SE	SE
18	NNE	NNE	NNE	NNE	N	NNW	NW	NW	C	WNW	NW	NW
19	E	N	NW	NNE	N	N	SW	SE	SE	SSE	S	SSE
20	N	NNE	NNE	NE	N	SSW	WSW	WSW	WSW	WSW	C	C
21	NE	NE	NE	NNE	ENE	NE	NNE	N	C	C	N	C
22	NE	NE	N	N	NNW	NW	SW	SW	SW	SSW	SSE	SSE
23	NE	NNE	NNE	NE	NE	NE	NE	SW	SW	SW	SW	SW
24	NE	NNE	SSW	SW	WSW	W	W	SW	C	SW	C	C
25	NE	N	NNE	NNW	WSW	WSW	WSW	C	WSW	WSW	C	C
26	ENE	NE	NE	NNE	NNE	NNE	C	NNE	NW	NW	C	NW
27	N	N	NNE	N	NNE	N	C	C	C	N	C	C
28	NE	NE	NNE	N	NNE	NE	NE	NNE	NNE	NNE	C	C
29	N	NNE	NNE	NNE	N	WSW	WSW	WSW	WSW	C	WSW	C
30	NNE	NE	NE	N	N	NNW	NNW	NNW	NE	E	C	E

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.6	3.2	4.8	—
	2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	6.4	4.0	5.6	12.1	—
	3	2.4	10.5	4.0	0.0	0.0	0.0	0.8	1.6	2.4	2.4	2.4	3.2	—
	4	0.0	0.0	0.0	0.0	0.0	0.0	0 8	0.8	4.8	4.0	4.8	5.6	—
	5	0.0	0.0	0.8	1.6	0.8	1.6	0.8	1.6	2.4	4.0	4.0	4.0	—
	6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	4.0	1.6	2.4	8.0	—
	7	3.2	5.6	3.2	0.0	0 0	0.0	0.8	1.6	3.2	4.0	3.2	4.8	—
	8	0.0	0.0	0.0	0 0	0.0	0 0	0.0	0.8	2.4	1.6	4.0	5.6	—
	9	1.6	4.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	4.8	—
	10	2.4	0.8	0.0	1.6	1.6	3.2	4.8	6.4	8.0	4.0	2.4	8.0	—
	11	0.0	0.0	0.0	0.0	0.8	0.0	0.8	1.6	6.4	9.7	11.3	11.3	—
	12	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	4.8	8.0	7.2	5.6	—
	13	0.8	1.6	1.6	0.0	4.0	6.4	8.0	6.4	8.0	11.3	9.7	9.7	—
	14	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	7.2	5.6	8.0	12.1	—
	15	1.6	0.8	0.8	0.0	0.0	0.8	0 8	0.8	2.4	5.6	9.7	12.9	—
	16	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	4.8	3.2	8.0	—
	17	3.2	3.2	1.6	1.6	1.6	1.6	2.4	2.4	3.2	3.2	3.2	4.0	—
	18	3.2	2.4	0.8	1.6	0.8	0.0	2.4	3.2	4.0	2.4	3.2	6.4	—
	19	0.8	2.4	3.2	0.8	1.6	1.6	1.6	0.8	3.2	4.0	3.2	8.0	—
	20	1.6	1.6	1.6	0.8	1.6	0.8	0.0	1.6	4.0	4.8	4.8	3.2	—
	21	0.8	0.8	0.8	0.8	0.8	0.0	0.8	2.4	4.0	6.4	6.4	11.3	—
	22	0.0	0.0	0.8	1.6	0.8	0.8	1.6	0.0	1.6	4.8	4.0	9.7	—
	23	1.6	1.6	0.8	0.0	0.0	0.0	0.8	3.2	3.2	3.2	4.8	8.9	—
	24	0.0	0.0	1.6	0.8	0.0	0.0	4.0	6.4	4.0	2.4	4.8	11.3	—
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4 8	4.8	4.0	—
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	4.0	4.0	5.6	—
	27	1.6	0.0	0.0	0.0	0.0	0.8	1.6	1.6	1.6	2.4	2.4	4.8	—
	28	0.0	0.8	0.0	0.0	0.0	0.0	0.8	0.0	4.0	3.2	4.0	8.0	—
	29	0.8	0.8	0.0	0.0	0.8	1.6	1.6	0.0	2.4	3.2	5.6	7.2	—
	30	0.8	0.0	0.8	1.6	2.4	0.8	3.2	5.6	6.4	7.2	6.4	5.6	—
														—
Hourly Means.		0.88	1.23	0.80	0.43	0.59	0.67	1.55	2.03	3.84	4.46	4.86	7.28	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	8.9	9.7	9.7	9.7	6.4	0.8	0.0	0.0	0.8	0.8	0.0	0.0	2.62
	2	14.5	15.3	12.1	12.1	10.5	4.0	0.8	1.6	3.2	2.4	0.8	3.2	4.73
	3	8.9	12.1	12.9	11.3	6.4	4.0	2.4	3.2	5.6	2.4	0.8	0.0	4.15
	4	4.0	7.2	9.7	9.7	5.6	1.6	1.6	6.4	2.4	2.4	0.8	0.8	3.04
	5	7.2	15.3	12.9	9.7	9.7	3.2	0.0	0.0	0.0	0.0	0.0	1.6	3.38
	6	12.1	11.3	9.7	10.5	5.6	1.6	0.0	0.0	0.0	0.0	2.4	0.8	3.05
	7	7.2	12.9	14.5	12.9	9.7	4 0	1.6	0.0	0.8	0.8	0.0	0.0	3.92
	8	9.7	11.3	12.9	9.7	9.7	3.2	0.8	0.0	0.0	0.0	0.8	1.6	3.09
	9	10.5	12.1	12.9	10.5	11.3	6.4	3.2	1.6	1.6	2.4	0.8	1.6	3.89
	10	11.3	13.7	17.7	16.1	12.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	4.99
	11	14.5	14.5	17.7	15.3	10.5	5.6	0.8	0.8	0.0	0.0	0.8	0.0	5.10
	12	9.7	20.1	14.5	9.7	3 2	3.2	3.2	3.2	1.6	1.6	0.8	0.0	4.08
	13	11.3	11.3	9.7	7.2	7.2	3.2	0.8	0.0	1.6	1.6	0.0	0.0	5.06
	14	16.9	17.7	19.3	12.9	6.4	9.7	7.2	3.2	1.6	3.2	0.8	1.6	5.76
	15	16.1	16.1	14.5	8.0	3.2	2.4	3.2	0 8	0.0	0.0	0.0	0.0	4.19
	16	11.3	9.7	8.0	5.6	8.0	1.6	6.4	1.6	1.6	4.8	8.9	5.6	3.98
	17	6.4	9.7	4.8	3.2	0.8	2.4	6.4	8.0	3.2	2.4	2.4	1.6	3.44
	18	12.1	12.9	11.3	10.5	9.7	6.4	3.2	3.2	0.0	0.8	1.6	1.6	4.32
	19	3.2	8.9	11.3	11.3	7.2	3.2	8.9	4.8	2.4	4.8	4.0	3.2	4.35
	20	8.0	13.7	14.5	12.9	6.4	9.7	2.4	2.4	1.6	0.8	0.0	0.0	4.12
	21	12.1	11.3	12.1	12.9	8.0	1.6	2.4	0.8	0.0	0.0	0.8	0.0	4.05
	22	13.7	12.1	9.7	10.5	6.4	3.2	6.4	0.8	1.6	3.2	1.6	1.6	4.02
	23	8.0	8.0	9.7	12.9	8.9	3.2	1.6	7.2	4.8	1.6	1.6	0.8	4.02
	24	13.7	13.7	10.5	3.2	3.2	1.6	1.6	1.6	0.0	0.8	0.0	0.0	3.55
	25	3.2	4.8	4.0	5.6	3.2	0.8	0.8	0.0	0.8	0.8	0.0	0.0	1.60
	26	9.7	16.1	12.9	10.5	7.2	1.6	0.0	1.6	1.6	0.8	0.0	1.6	3.45
	27	6.4	8.0	7.2	8.0	4.8	1.6	0.0	0 0	0.0	0.8	0.0	0.0	2.23
	28	9.7	9.7	8 9	6.4	2.4	1.6	1.6	3.2	0.8	0 8	0.0	0.0	2.75
	29	9.7	12.1	12.9	9.7	8.0	6.4	2.4	2.4	1.6	0.0	0.8	0.0	3.75
	30	9.7	14.5	10.5	9.7	4.8	3.2	0.8	0.8	4.0	0.8	0.0	1.6	4.22
Hourly Means.		9.99	12.19	11.63	9.94	6.91	3.53	2.35	1.97	1.44	1.36	1.02	0.96	3.83

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	7	4	6	3	4	4	7	6	7	8	8	8	—
	2	10	10	10	7	6	6	7	3	4	8	8	8	—
	3	10	10	10	10	10	10	10	7	9	9	9	9	—
	4	9	9	9	7	2	4	8	4	1	3	4	5	—
	5	6	6	4	2	2	3	8	2	0	1	3	3	—
	6	2	1	1	4	5	4	7	4	2	6	6	5	—
	7	2	3	3	2	3	4	3	2	1	3	6	3	—
	8	10	10	9	10	6	10	10	10	9	10	9	9	—
	9	10	10	10	10	10	9	10	6	3	6	5	6	—
	10	10	4	2	3	2	3	3	4	8	4	4	3	—
	11	2	1	1	0	4	6	6	2	3	3	3	4	—
	12	9	9	7	5	5	6	2	1	1	4	8	9	—
	13	7	10	10	10	10	10	10	10	9	10	10	10	—
	14	3	2	1	2	2	7	2	2	2	3	3	3	—
	15	5	3	3	6	6	7	9	9	8	9	6	7	—
	16	4	5	4	4	1	3	5	6	3	4	8	9	—
	17	10	10	10	10	9	10	10	8	4	7	8	7	—
	18	9	10	10	9	9	9	9	9	7	7	7	7	—
	19	4	3	2	2	3	9	8	8	9	9	9	10	—
	20	10	10	10	10	9	9	9	9	7	8	6	7	—
	21	6	7	4	3	7	6	6	5	4	4	6	7	—
	22	5	9	10	10	10	10	4	3	4	6	8	8	—
	23	0	0	0	0	0	2	10	9	7	7	7	9	—
	24	3	2	1	1	3	8	8	3	6	10	5	8	—
	25	7	10	9	7	10	7	9	10	9	10	9	9	—
	26	7	6	4	4	7	7	6	5	4	5	4	3	—
	27	10	10	10	9	10	10	9	3	7	6	9	8	—
	28	8	9	7	2	3	3	10	9	9	9	7	9	—
	29	4	3	6	4	3	5	4	3	2	3	3	4	—
	30	6	6	7	7	6	6	8	7	6	4	3	3	—
Hourly Means.		6.5	6.4	6.0	5.4	5.6	6.6	7.2	5.6	5.2	6.2	6.4	6.7	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	8	5	5	7	5	3	2	2	8	8	10	7	5.9
	2	7	7	4	3	3	4	7	8	7	9	10	10	6.9
	3	6	2	4	8	7	10	10	10	10	10	10	10	8.8
	4	7	7	7	5	5	6	6	10	10	10	10	10	6.6
	5	4	3	1	1	1	1	5	7	9	9	10	10	4.2
	6	2	4	5	7	6	5	6	5	3	2	1	1	3.9
	7	4	4	2	3	3	3	3	2	2	3	4	8	3.2
	8	7	3	2	3	2	4	8	8	10	10	10	10	7.9
	9	7	5	3	3	5	6	7	8	6	7	7	7	6.9
	10	2	1	1	1	1	3	6	7	7	5	3	3	3.8
	11	5	8	9	10	10	9	7	2	1	2	3	3	4.3
	12	9	5	2	4	7	8	4	4	5	6	3	2	5.2
	13	9	9	8	8	4	7	8	6	9	7	9	7	8.6
	14	6	5	5	5	6	6	3	2	8	4	5	3	3.8
	15	3	3	4	4	4	4	3	5	5	7	3	5	5.3
	16	3	4	9	8	10	10	10	9	10	10	10	10	6.6
	17	10	10	10	10	10	9	9	10	9	7	9	9	9.0
	18	4	6	2	2	8	10	9	9	6	6	6	7	7.4
	19	10	9	9	9	9	10	10	10	10	9	10	10	8.0
	20	7	6	5	6	9	10	10	7	10	10	10	9	8.5
	21	3	3	4	4	3	9	3	0	2	0	1	5	4.3
	22	10	7	9	6	10	10	10	8	7	4	2	1	7.1
	23	9	9	9	10	10	10	10	10	6	10	10	6	6.7
	24	7	9	10	10	10	10	10	10	10	10	4	2	6.7
	25	10	9	10	10	10	10	10	10	9	7	9	10	9.2
	26	3	2	2	2	4	7	9	10	10	10	9	10	5.8
	27	8	10	9	3	4	4	7	6	5	7	6	8	7.4
	28	9	8	8	8	10	10	10	9	10	10	6	10	8.0
	29	7	7	9	9	9	10	10	8	7	9	9	4	5.9
	30	3	2	2	2	3	3	5	7	9	9	9	9	5.5
Hourly Means.		6.3	5.7	5.6	5.7	6.3	7.0	7.2	7.0	7.3	7.2	6.9	6.9	6.37

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	15.5	16.8	11.6	14.9	13.6	12.9	3.3	2.0	6.5	3.3	2.0	2.6	—
	2	0.7	3.9	2.0	2.6	4.6	— 0.6	— 0.6	2.0	0.7	1.3	0.7	0.7	—
	3	1.3	N	— 1.3	2.6	4.6	3.3	7.1	5 2	2.6	1.3	0.0	2.0	—
	4	5.9	5.2	6.5	6.5	7.7	9.7	11.0	5.9	2.0	3.3	2.6	2.6	—
	5	5.9	5.9	5.9	5.2	5.2	4.6	10.3	—	—	—	—	—	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	9.7	5.9	7.0	7.6	7.6	14.6	15.7	12.4	8.1	3.8	2.7	1.6	—
	9	5.4	0.0	—18.9	4.3	—16.2	4.9	20.5	10.8	5.4	1.6	1.1	3.2	—
	10	7.6	7.0	8.1	7.0	6.5	5.9	8.1	2.7	4.9	3.8	3.8	3.2	—
	11	17.3	14.6	16.7	15.1	15.1	12.4	16.2	8.6	5.4	1.6	3.8	3.2	—
	12	8.1	8.6	7.6	8.6	9.2	5.9	11.3	5.9	3.8	2.2	2.7	2.7	—
	13	6.5	7.6	5.9	6.5	7.0	2.2	5.4	3.2	6.5	4.3	3.8	6.5	—
	14	15.1	15.1	13.5	8.6	10.3	15.1	15.1	7.0	2.2	1.1	2.7	2.2	—
	15	9.2	10.8	12.4	11.3	10.3	12.4	10.8	4.3	1.1	1.6	1.6	2.7	—
	16	21.6	13.0	12.4	11.3	9.7	13.5	14.6	7.0	0.5	0.5	0.5	0.5	—
	17	7.6	8.6	8.1	9.2	9.7	12.4	10.3	11.9	7.0	2.7	2.7	3.2	—
	18	42.7	N	8.1	13.0	13.5	14.0	21.6	10.8	4.9	2.2	3.8	3.8	—
	19	4.3	6.5	4.9	4.9	5.4	4.9	10.8	10.8	7.6	5.4	1.1	PN	—
	20	2.7	— 2.2	— 2.2	1.1	4.9	2.7	3.8	4.9	2.7	1.1	1.6	2.7	—
	21	11.9	12.4	10.3	10.8	15.7	10.3	16.7	11.9	0.5	2.2	2.2	1.6	—
	22	11.3	9.2	7.0	7.6	5.4	4.3	8.1	5.4	2.2	1.6	2.7	3.2	—
	23	6.5	5.4	9.2	7.0	11.9	8.6	26.5	8.1	3.8	1.1	2.2	3.2	—
	24	5.4	5.4	7.6	6.5	7.6	9.7	9.7	4.9	6.5	5.4	5.9	4.3	—
	25	9.2	16.2	12.4	13.0	12.4	16.2	26.5	16.7	14.6	14.0	6.5	3.2	—
	26	17.3	18.9	26.5	20.0	15.1	23.8	27.5	14.0	7.6	4.3	4.9	4.3	—
	27	4.9	3.8	6.5	3.8	4.9	3.2	4.9	5.9	2.7	0.5	2.7	2.2	—
	28	18.4	16.2	7.6	8.6	6.5	8.6	14.6	10.8	4.9	2.7	2.2	N	—
	29	8.6	8.1	7.0	7.0	8.1	10.3	13.5	11.3	0.5	0.0	3.2	2.2	—
	30	8.6	11.3	14.6	11.3	7.6	7.6	12.4	7.6	4.9	4.9	5.4	4.9	—
Hourly Means.		10.3	9.0	7.8	8.4	8.0	9.1	12.7	7.9	4.4	2.9	2.8	2.9	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	2.0	2.6	2.0	2.6	4.6	6.5	7.7	10.3	11.6	0.0	6.5	5.9	7.0
	2	0.0	0.7	0.7	2.0	3.9	7.1	5.9	5.9	— 6.5	1.3	3.3	2.6	1.9
	3	0.7	2.0	0.7	2.0	2.6	4.6	5.2	6.5	— 5.2	— 1.3	—11.7	4.6	1.7
	4	2.6	2.6	2.6	2.6	3.9	5.9	6.5	—24.6	N	— 7.1	— 7.8	7.7	2.8
	5	—	—	—	—	—	—	—	—	—	—	—	—	6.1
	6	—	—	—	—	—	—	—	—	—	—	—	—	—
	7	3.8	3.2	3.8	2.7	6.5	6.5	7.6	5.4	16.2	15.7	9.2	10.8	7.6
	8	3.2	2.2	2.2	2.7	3.2	5.4	8.1	4.9	10.3	14.6	N	N	7.0
	9	4.3	3.8	3.8	3.8	4.3	4.9	6.5	5.9	12.4	12.4	7.0	7.6	4.1
	10	3.8	3.2	2.7	1.6	4.9	6.5	9.7	18.9	25.9	21.6	18.4	20.0	8.6
	11	2.7	— 1.6	— 1.1	0.5	1.1	4.9	7.0	11.9	14.0	13.5	13.5	14.6	8.8
	12	2.2	— 1.1	3.8	3.8	7.0	6.5	8.1	8.1	8.1	7.0	9.7	7.6	6.1
	13	0.5	3.2	1.6	2.7	4.3	4.3	11.3	11.9	17.8	14.0	12.4	13.5	6.8
	14	0.5	— 3.8	— 2.7	1.6	8.6	8.1	7.6	8.6	8.6	8.1	9.2	10.8	7.2
	15	0.5	2.2	8.1	1.1	0.5	4.9	11.3	14.0	18.4	23.2	22.1	24.8	9.2
	16	0.5	1.1	0.5	— 0.5	PN	P	P	P	22.1	N	10.3	5.4	7.6
	17	4.3	3.8	P	3.2	31.3	42.7	P	5.4	5.4	22.7	9.7	18.9	10.9
	18	3.2	5.4	7.0	10.8	N	P	45.9	20.0	8.6	10.3	8.1	4.9	12.5
	19	PN	18.9	11.3	10.3	13.0	31.9	P	P	18.4	1.1	4.3	9.2	9.3
	20	3.8	4.9	5.4	4.9	10.3	PN	PN	PN	PN	PN	11.3	10.8	4.0
	21	3.2	3.2	4.3	4.9	8.1	7.0	7.6	7.6	8.1	9.7	18.9	12.4	8.4
	22	— 1.6	2.7	3.8	8.1	7.6	9.2	N	— 3.8	5.9	11.9	8.6	8.1	5.6
	23	2.7	3.2	4.3	4.9	10.3	N	—10.3	8.1	6.5	5.9	4.9	5.4	6.1
	24	3.8	PN	PN	PN	PN	PN	PN	PN	5.4	10.3	13.0	13.0	7.3
	25	3.8	3.2	4.3	N	N	2.2	6.5	16.2	16.7	14.6	16.2	18.4	12.0
	26	4.3	3.8	4.3	4.3	5.4	9.7	8.1	N	N	4.3	6.5	4.9	10.9
	27	0.5	4.3	4.3	4.3	5.4	7.6	10.3	14.6	17.3	16.2	15.7	16.7	6.8
	28	— 2.7	3.8	7.0	8.1	0.5	4.9	11.3	8.1	11.9	14.0	10.3	9.2	8.2
	29	2.7	2.7	2.7	0.5	P	N	N	7.6	12.4	16.2	14.0	8.6	7.0
	30	5.4	5.4	4.9	5.9	4.9	4.9	4.9	7.0	13.5	7.6	10.8	9.2	7.7
Hourly Means.		2.2	3.2	3.6	3.8	6.6	8.9	8.9	7.8	11.4	10.3	9.4	10.6	7.20

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

OCTOBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	9.69	9.27	9.11	9.15	9.51	9.83	10.36	10.98	10.99	10.73	10.17	9.21	—
2	9.45	9.25	9.25	9.18	9.47	9.97	10.54	10.89	11.00	10.90	10.45	9.49	—
3	9.59	9.38	9.02	9.02	9.10	9.28	9.59	9.95	10.11	9.83	9.37	8.65	—
4	8.47	8.12	7.90	8.03	8.36	8.76	9.13	9.46	9.42	9.30	8.71	7.90	—
5	7.45	7.27	7.30	7.30	7.56	7.97	8.49	8.81	8.87	8.60	7.93	7.33	—
6	7.96	7.69	7.51	7.90	8.35	8.62	8.91	9.31	9.12	9.04	8.50	7.70	—
7	8.57	8.45	8.47	8.60	8.93	9.42	9.58	10.00	9.99	9.59	9.07	8.41	—
8	9.88	9.59	9.52	9.64	9.73	10.10	10.65	10.97	11.10	10.91	10.42	9.60	—
9	10.05	9.69	9.47	9.59	9.72	9.93	10.49	10.73	10.83	10.69	10.41	9.42	—
10	10.30	9.67	10.32	10.14	9.61	9.64	10.33	10.66	10.83	10.70	10.19	9.63	—
11	9.64	9.12	9.14	9.25	9.59	10.06	10.55	10.78	10.92	10.64	10.08	9.23	—
12	9.60	9.36	9.13	9.30	9.68	10.16	11.06	11.43	11.41	11.09	10.48	9.63	—
13	9.73	9.55	9.35	9.61	9.84	10.46	11.05	11.45	11.24	11.10	10.69	9.97	—
14	11.00	10.56	10.43	10.48	10.74	10.90	11.49	11.58	11.72	11.62	11.26	10.58	—
15	10.13	9.69	9.48	9.46	9.85	10.21	10.50	11.08	11.16	11.08	10.56	9.93	—
16	10.76	10.11	9.88	9.83	9.84	10.16	10.65	11.04	11.27	10.98	10.48	9.78	—
17	10.19	9.80	9.66	9.76	9.99	10.63	11.18	11.49	11.30	11.00	10.31	9.69	—
18	9.68	8.92	8.85	9.07	9.36	9.55	10.31	10.74	11.05	10.52	9.79	9.48	—
19	9.54	9.27	9.04	9.05	9.22	9.41	9.70	9.93	10.15	9.97	9.61	9.12	—
20	9.32	8.92	8.60	8.85	9.06	9.33	9.71	9.81	9.84	9.72	9.12	8.29	—
21	9.24	8.76	8.52	8.61	8.62	8.86	8.96	9.17	9.21	8.80	8.18	7.58	—
22	8.07	7.86	7.81	7.92	8.57	9.23	9.80	9.84	9.73	9.35	9.24	8.30	—
23	8.26	7.84	7.46	7.82	8.13	8.61	8.93	9.46	9.56	9.44	8.80	7.92	—
24	7.97	7.38	7.30	7.36	7.67	7.98	8.46	8.73	8.91	8.79	8.54	7.66	—
25	8.40	7.87	7.60	7.61	7.81	8.11	9.01	9.42	9.45	9.01	8.53	7.82	—
26	8.29	7.62	7.64	7.66	7.82	8.05	8.66	8.81	8.74	8.38	7.77	7.26	—
27	7.20	7.06	6.84	6.87	7.01	7.28	8.05	8.72	8.64	8.38	8.30	7.51	—
28	7.85	7.17	7.19	7.19	7.45	7.96	8.22	8.87	8.85	8.74	8.46	7.62	—
29	8.19	7.70	7.46	7.51	7.76	8.07	8.67	9.10	9.28	9.14	8.80	8.23	—
30	8.45	7.95	7.67	7.82	8.09	8.26	8.96	9.34	9.32	9.08	8.51	7.83	—
31	8.82	8.37	7.77	7.79	8.16	8.53	8.98	9.34	9.32	9.37	9.38	8.87	—
Hourly Means.	9.09	8.69	8.54	8.62	8.86	9.20	9.71	10.06	10.11	9.89	9.42	8.70	—

OCTOBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.41	7.53	7.19	6.93	7.32	7.74	8.55	9.03	9.57	9.80	9.84	9.79	9.20
2	8.33	7.42	7.12	7.17	7.28	7.81	8.52	9.11	9.75	10.09	10.03	9.82	9.26
3	7.97	7.52	7.12	6.83	7.07	7.58	8.00	8.50	9.10	9.52	9.37	9.05	8.77
4	7.06	6.33	6.11	6.12	6.44	7.27	7.70	8.28	8.59	8.55	8.26	8.01	8.01
5	6.79	6.38	6.19	6.09	6.39	6.91	7.67	8.37	8.73	8.73	8.74	8.34	7.68
6	7.04	6.56	6.44	6.24	6.63	7.02	7.67	8.28	8.64	8.83	9.05	8.89	8.00
7	7.78	7.51	7.43	7.26	7.46	8.16	8.81	9.49	10.24	10.62	10.45	10.15	8.94
8	9.06	8.60	8.13	7.93	8.25	9.26	9.46	10.37	10.67	10.72	10.66	10.33	9.81
9	8.87	8.33	8.07	8.12	8.44	8.87	9.78	10.61	10.98	11.12	11.30	10.83	9.85
10	8.88	8.28	7.77	8.03	8.41	8.92	9.47	9.84	10.35	10.30	9.93	9.73	9.66
11	8.64	7.94	7.86	8.59	8.58	9.44	10.07	10.39	10.78	11.32	10.89	10.46	9.75
12	8.75	8.36	8.19	7.89	8.32	9.12	10.07	10.58	11.08	11.23	10.78	10.25	9.87
13	9.51	9.38	8.53	9.12	9.48	9.78	10.49	11.23	11.57	11.78	11.49	11.24	10.32
14	9.57	8.69	8.59	8.34	8.77	9.44	10.19	10.74	11.38	11.61	11.66	11.24	10.52
15	9.44	8.81	8.59	8.14	8.18	8.72	9.64	10.14	10.77	11.13	11.19	10.80	9.95
16	8.88	8.42	8.21	7.68	8.41	9.22	10.23	11.00	11.32	11.57	11.49	11.00	10.09
17	8.74	8.08	8.05	7.88	7.93	8.39	8.94	9.74	10.45	10.63	10.27	10.00	9.75
18	8.67	8.44	8.02	7.54	8.01	8.47	8.79	9.47	9.75	10.19	10.13	9.77	9.36
19	7.64	7.54	7.13	7.14	7.14	7.82	8.82	9.27	9.68	10.18	10.12	9.75	9.01
20	7.63	7.17	6.58	6.83	7.27	7.86	8.67	8.95	9.77	10.07	9.85	9.20	8.77
21	6.92	6.19	6.04	6.24	7.09	7.63	8.16	8.95	9.60	9.72	9.53	8.99	8.32
22	6.83	6.19	5.64	5.46	6.34	7.14	8.28	8.80	8.95	9.10	8.94	8.86	8.18
23	7.43	6.99	6.67	6.68	7.29	7.84	8.00	8.65	8.79	8.77	8.55	8.06	8.16
24	6.99	6.22	5.99	6.09	6.82	7.54	8.46	9.09	9.39	9.42	9.07	8.72	7.94
25	7.28	6.72	6.32	6.53	6.84	7.38	7.50	7.67	8.26	8.78	8.66	8.40	7.96
26	6.59	5.93	6.04	6.09	6.71	6.95	7.54	8.29	8.66	8.90	8.66	8.25	7.72
27	6.67	5.99	5.63	5.61	5.99	6.98	8.07	8.38	8.81	9.29	8.86	8.44	7.52
28	7.19	6.47	6.11	5.93	6.59	7.04	7.78	8.75	9.20	9.30	9.26	8.67	7.83
29	6.99	6.39	6.23	6.18	6.88	7.36	8.35	8.59	9.04	9.07	9.16	8.92	8.04
30	7.27	6.86	6.57	6.26	6.81	7.66	8.22	8.73	9.00	9.34	9.25	9.01	8.18
31	8.49	8.13	7.82	7.28	8.29	8.34	8.89	9.34	9.82	10.39	10.45	10.10	8.84
Hourly Means.	7.95	7.40	7.11	7.04	7.47	8.05	8.74	9.31	9.76	10.00	9.87	9.52	8.88

STANDARD THERMOMETER.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	75.0	73.8	72.8	71.9	71.9	71.2	72.8	76.7	80.5	83.2	85.4	87.0	—
	2	73.8	73.0	72.8	72.0	71.5	71.3	72.9	77.0	80.6	82.8	84.9	86.0	—
	3	75.6	74.8	74.2	73.4	72.2	71.6	73.5	77.4	80.1	83.2	85.0	85.8	—
	4	73.7	73.4	73.0	72.1	71.4	70.7	71.7	75.0	79.0	82.0	85.6	87.1	—
	5	72.0	71.5	71.5	72.0	71.8	71.4	72.8	76.1	80.0	83.2	85.4	86.0	—
	6	73.9	73.1	72.3	71.4	70.7	70.6	72.3	75.9	79.3	83.1	84.1	85.3	—
	7	74.5	74.0	73.4	72.5	72.0	71.7	72.9	77.0	81.0	84.1	86.0	88.5	—
	8	77.0	76.4	75.5	75.1	75.0	74.2	76.1	80.0	83.7	85.6	88.0	89.0	—
	9	77.7	77.0	76.4	75.7	75.4	75.2	77.3	81.0	85.0	86.0	85.6	87.2	—
	10	75.0	74.2	74.0	72.6	72.0	72.0	73.4	76.4	79.8	83.0	84.5	84.6	—
	11	75.3	75.0	74.5	74.0	73.5	73.3	74.0	76.0	80.3	84.2	86.0	87.0	—
	12	73.3	73.0	72.7	72.6	72.0	71.7	73.4	76.4	80.0	82.9	84.4	85.2	—
	13	75.0	75.0	74.8	74.6	73.4	73.4	75.2	78.5	80.4	84.3	85.7	88.0	—
	14	75.1	74.9	74.6	74.6	74.2	74.5	76.8	79.9	82.3	84.0	85.3	85.5	—
	15	72.2	72.0	71.9	71.9	71.7	71.9	73.8	77.2	81.3	83.6	85.6	85.7	—
	16	75.2	75.0	74.5	73.8	73.6	73.1	75.1	78.3	81.7	84.4	86.5	87.1	—
	17	75.0	74.5	73.9	73.2	73.0	72.5	73.5	77.0	80.8	83.9	87.0	89.0	—
	18	74.7	74.0	73.6	73.2	73.0	73.0	73.9	76.0	80.0	83.1	86.0	82.5	—
	19	75.2	75.0	74.6	73.8	73.4	73.2	75.0	79.0	82.0	85.2	85.0	85.2	—
	20	75.3	75.0	74.4	74.2	73.4	73.4	74.6	76.6	80.4	83.4	85.5	87.4	—
	21	76.0	75.5	74.6	74.4	73.6	73.6	76.1	79.0	82.0	84.2	86.2	87.2	—
	22	75.5	75.2	75.2	74.9	75.1	72.7	72.7	73.7	76.8	79.5	81.2	83.8	—
	23	74.0	73.3	73.2	73.1	73.5	72.2	73.1	75.0	76.9	79.5	83.6	85.3	—
	24	72.8	72.4	72.1	71.9	71.6	71.7	73.5	78.1	81.5	84.6	86.5	86.0	—
	25	73.3	73.0	73.0	73.2	73.5	73.1	74.2	77.0	81.0	84.3	87.0	88.4	—
	26	76.0	75.1	74.6	74.3	73.8	74.0	75.9	79.1	82.9	85.0	85.4	85.6	—
	27	75.0	74.6	74.0	73.5	73.1	73.0	76.2	80.0	83.0	85.3	86.5	86.4	—
	28	75.0	75.0	74.6	74.8	74.2	74.2	75.2	78.0	79.9	81.7	83.0	83.6	—
	29	74.2	74.1	73.8	73.7	73.9	74.0	75.4	78.2	80.5	82.1	84.0	86.0	—
	30	76.0	76.0	75.4	75.2	74.9	74.9	76.9	80.0	82.5	84.4	87.0	88.1	—
	31	75.4	74.9	74.7	74.5	73.9	73.6	74.9	77.8	81.0	83.5	85.4	86.0	—
Hourly Means.		74.76	74.31	73.89	73.49	73.10	72.80	74.36	77.53	80.85	83.53	85.40	86.31	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	88.1	88.0	86.0	85.2	83.7	82.5	80.5	78.5	77.8	76.6	75.8	75.0	79.16
	2	87.2	87.4	86.7	83.7	83.2	82.3	80.4	79.5	78.0	77.4	76.4	75.8	79.03
	3	86.9	85.3	84.8	84.3	83.0	81.8	80.0	78.7	78.0	76.8	75.4	74.3	79.00
	4	89.0	87.2	85.3	84.0	82.6	81.2	78.9	77.0	76.0	74.4	73.7	72.3	78.18
	5	87.2	86.3	85.4	84.2	83.0	82.1	81.0	79.0	77.6	76.4	75.5	74.5	78.58
	6	87.4	86.6	86.4	84.6	83.4	82.3	80.2	79.0	77.5	77.5	77.0	75.6	78.73
	7	87.0	86.8	86.0	85.3	84.7	83.0	81.7	80.2	79.5	78.7	78.0	77.1	79.82
	8	90.0	89.5	89.0	87.3	85.6	84.0	82.2	81.0	80.0	79.0	78.0	77.8	81.63
	9	87.0	86.4	86.5	85.9	80.0	80.1	80.0	78.9	78.5	77.4	76.6	76.2	80.54
	10	85.2	85.0	84.5	86.0	84.0	83.0	81.0	79.0	77.7	77.2	76.7	75.7	79.02
	11	86.0	83.6	83.2	78.4	77.2	76.7	76.1	76.0	75.5	74.6	74.1	73.9	77.85
	12	84.9	85.5	85.3	83.1	83.0	81.8	80.0	78.9	77.5	76.6	75.9	75.4	78.56
	13	85.1	81.2	83.5	81.0	79.9	77.0	76.2	75.8	76.0	76.0	75.6	75.4	78.38
	14	85.6	86.0	82.1	81.9	81.3	80.1	75.1	74.5	75.0	73.0	72.5	72.4	78.38
	15	85.0	86.0	85.2	84.5	83.2	82.0	80.0	78.5	76.5	75.3	75.0	75.0	78.54
	16	86.8	85.6	82.4	84.5	83.2	81.4	78.2	77.2	76.2	76.0	76.0	75.3	79.21
	17	87.0	88.0	88.6	87.6	86.0	83.4	80.4	78.1	77.2	76.4	75.6	75.0	79.86
	18	85.0	86.0	86.0	85.4	84.0	82.0	80.6	79.0	78.1	76.8	76.1	75.6	79.07
	19	85.1	85.0	84.1	83.6	83.0	82.0	80.2	78.7	78.1	77.3	76.6	75.8	79.42
	20	89.0	85.5	84.2	83.7	83.2	82.5	81.6	79.5	78.5	77.3	77.0	76.5	79.67
	21	86.0	85.3	83.4	83.1	79.9	78.7	78.0	78.0	77.3	77.2	76.5	76.0	79.24
	22	85.5	85.3	85.0	84.0	82.2	81.3	78.4	76.8	75.5	75.2	74.6	74.5	78.11
	23	85.5	81.8	82.1	82.2	81.9	76.0	74.5	73.1	73.1	73.0	73.0	73.0	76.75
	24	86.1	86.6	86.0	85.1	81.6	77.6	75.9	75.9	76.2	75.4	74.9	74.0	78.25
	25	89.0	87.5	86.1	85.0	84.0	83.0	81.5	79.4	78.9	78.0	77.6	76.5	79.90
	26	86.0	85.4	84.2	84.8	80.0	79.8	79.2	78.5	78.2	77.4	76.1	75.5	79.33
	27	86 2	86.2	86.2	84.9	83.7	82.9	80.0	77.4	77.0	76.0	75.8	75.0	79.66
	28	84.0	84.1	83.8	83.6	83.0	82.2	80.7	75.0	74.7	75.0	74.8	74.4	78.52
	29	86.0	85.0	84.0	84.0	83.3	81.1	78.5	77.4	77.0	76.3	76.0	75.9	78.93
	30	87.0	86.0	85.5	84.5	83.6	83.0	77.5	75.7	75.2	75.3	75.1	75.1	79.78
	31	86.8	86.0	85.4	84.7	77.2	75.3	74.6	74.2	74.1	74.0	74.0	73.5	78.14
Hourly Means.		86.54	85.81	85.06	84.10	82.50	81.04	79.13	77.69	76.98	76.24	75.67	75.10	79.01

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

OCTOBER. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	831	853	842	849	814	829	783	679	618	516	425	398	—
2	828	843	834	841	831	813	800	711	647	596	551	545	—
3	775	805	829	852	884	866	794	692	660	594	540	551	—
4	811	810	792	781	753	750	720	696	618	612	386	371	—
5	874	882	873	849	840	821	808	761	687	618	523	551	—
6	861	876	892	909	899	890	841	784	727	604	583	540	—
7	921	921	911	902	901	901	886	835	719	642	581	505	—
8	891	906	923	914	914	921	890	781	653	622	571	547	—
9	884	899	906	914	922	922	851	775	702	687	678	627	—
10	939	947	895	946	946	964	946	874	803	746	730	730	—
11	931	939	939	938	938	929	887	890	767	642	598	622	—
12	937	937	946	946	955	955	911	842	766	697	676	678	—
13	930	888	879	879	911	869	807	777	768	682	648	596	—
14	956	947	965	965	965	956	916	879	773	694	685	712	—
15	928	928	946	946	955	936	887	851	769	699	635	706	—
16	888	905	904	921	903	911	863	799	707	630	589	579	—
17	855	863	887	903	911	920	911	827	754	628	513	497	—
18	888	895	903	903	902	894	878	817	730	672	588	675	—
19	939	930	930	929	938	929	879	807	756	651	709	696	—
20	922	913	930	930	938	938	913	891	789	692	628	569	—
21	889	905	930	904	920	920	856	808	764	668	650	616	—
22	931	939	947	947	956	920	937	921	834	757	705	647	—
23	912	929	938	937	973	946	903	855	875	780	693	659	—
24	937	937	955	946	945	945	920	814	741	649	594	655	—
25	894	894	894	886	877	886	853	818	718	605	548	511	—
26	899	914	913	921	921	912	864	809	724	639	660	647	—
27	897	913	921	938	937	937	890	811	684	603	590	577	—
28	947	939	947	939	956	956	947	877	848	785	739	761	—
29	956	956	965	965	965	965	948	908	842	778	735	681	—
30	915	915	931	930	930	913	866	811	723	716	627	601	—
31	889	904	913	913	921	929	913	860	790	699	634	568	—
Hourly Means.	899	904	909	911	914	908	873	815	741	665	613	601	—

OCTOBER. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	405	502	551	547	613	669	723	783	736	747	761	790	678
2	509	522	547	639	671	673	744	727	736	727	777	784	704
3	525	595	612	590	604	671	766	746	721	755	791	795	709
4	405	442	494	516	565	609	702	748	792	812	836	858	662
5	509	570	571	629	670	693	732	800	828	841	856	871	736
6	492	470	499	591	657	673	744	784	844	844	882	914	742
7	609	590	586	645	657	731	763	818	839	862	884	900	771
8	502	527	542	580	628	700	772	805	848	869	900	900	754
9	608	656	650	693	848	903	895	918	918	892	906	899	815
10	738	737	756	681	741	774	813	878	900	907	907	923	843
11	655	726	739	861	916	932	915	898	905	913	921	929	847
12	690	660	672	739	710	756	833	862	900	915	931	930	827
13	677	805	775	797	795	907	906	923	923	931	931	939	831
14	699	682	808	807	828	759	897	913	905	876	910	928	851
15	690	641	659	695	732	764	833	837	833	864	871	880	812
16	614	660	639	668	703	783	807	828	850	850	841	848	779
17	591	571	439	448	466	573	700	767	787	841	848	871	724
18	582	580	611	609	628	700	767	831	861	899	915	931	777
19	690	696	727	740	767	771	811	877	884	883	899	915	823
20	525	692	701	706	718	751	792	802	830	867	867	874	799
21	668	653	691	724	817	862	884	884	907	907	924	915	819
22	647	653	651	660	728	769	776	817	847	871	888	904	819
23	647	784	750	750	785	872	896	902	911	920	929	929	853
24	675	613	624	652	643	712	775	824	833	864	863	869	791
25	530	599	593	633	674	746	799	855	847	852	867	891	761
26	655	678	708	777	773	824	854	877	893	892	890	889	814
27	576	594	582	645	699	745	751	819	883	923	923	956	783
28	707	707	699	705	732	778	789	922	947	947	956	965	854
29	728	724	721	700	725	798	837	843	866	899	906	923	847
30	665	693	719	743	748	775	812	864	880	888	888	897	810
31	632	662	712	670	788	864	888	896	896	895	912	920	820
Hourly Means.	608	635	646	672	711	759	806	840	856	869	883	895	789

DIRECTION OF THE WIND.

OCTOBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	SSE	SSE	SSE	SSW	SSW	SSW	SSW	SSW	S	SSW	S	SSE
2	SSW	SSW	C	C	SSW	SSW	SSW	SSW	SSW	WSW	SW	W
3	SW	SW	SW	SW	SW	SW	SSW	SSW	SW	SE	S	S
4	WSW	WSW	SW	SW	SW	SW	SW	S	SE	E	SE	ESE
5	NW	WNW	W	SW	SW	SW	SW	SSW	SW	WSW	SSW	NE
6	NE	NE	C	C	NE	NE	NE	E	S	SW	WSW	N
7	N	N	N	N	N	N	N	NNW	SE	ESE	E	E
8	ENE	ENE	C	C	C	C	ENE	ESE	SE	E	ESE	E
9	ENE	C	ENE	ENE	ENE	ENE	ESE	E	E	ESE	E	E
10	NNE	N	ESE	NE	NE	NE	C	C	E	ENE	NE	NE
11	C	C	C	C	NE	C	NE	NE	ENE	ESE	ESE	E
12	C	C	C	C	C	C	C	WSW	WSW	WSW	E	NE
13	C	C	C	C	C	C	C	ESE	E	ESE	SE	E
14	C	C	C	C	C	S	S	SE	ESE	E	ESE	NE
15	C	C	C	C	C	C	SW	SW	ESE	SE	ENE	N
16	C	C	C	C	C	NNW	WNW	SW	SW	SSW	ESE	ENE
17	C	C	C	C	C	C	WSW	SW	SW	S	ESE	E
18	C	C	C	C	C	C	E	SSE	S	E	ESE	E
19	C	C	C	C	C	C	E	E	ESE	ESE	NNE	N
20	C	C	C	C	NNE	NNE	NNE	NNE	ENE	ESE	SE	E
21	C	NNE	NNE	C	C	C	NNE	E	SE	S	N	NE
22	C	C	C	C	SSW	ESE	SE	SSE	SSE	SE	SE	E
23	C	C	C	S	E	E	ESE	C	ESE	ESE	SSE	ENE
24	C	C	C	C	C	S	S	S	S	E	ENE	NNE
25	C	SSW	C	SSW	SSW	C	SSW	SSW	SW	SSW	SSE	SE
26	C	NE	NE	C	NE	NE	NE	SSW	SSW	E	ENE	NE
27	SSW	SSW	SSW	C	C	SSW	SSW	SSW	SE	E	SE	NNE
28	C	C	C	C	C	C	S	SE	NNE	NNE	NNE	N
29	C	C	C	C	SE	SE	C	C	SE	SE	S	SSE
30	SW	C	C	C	SW	SW	SW	SW	SW	SSW	SSW	SSW
31	C	C	C	C	C	SW	SW	SW	SW	SW	WSW	WNW

OCTOBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	SE	NNE	N	N	N	NNW	C	C	NNW	SSW	SSW	SSW
2	W	N	N	N	N	N	N	SW	SW	SW	SW	SW
3	N	NNE	NNE	NNE	N	C	N	N	WSW	WSW	WSW	WSW
4	SSW	N	N	NNW	N	N	C	C	C	N	N	NNW
5	NE	NNE	N	NNE	NNE	NE	NE	NE	NE	NE	NE	NE
6	N	N	NNE	N	N	N	C	C	N	N	N	N
7	NE	NNE	NNE	NNE	ENE	ENE	ENE	C	ENE	ENE	C	C
8	ENE	ENE	NE	ENE	NE	ENE	ENE	C	C	ENE	ENE	ENE
9	E	E	E	ENE	NW	N	N	C	N	SSW	W	WNW
10	NE	N	N	E	NE	NE	NE	C	C	C	C	C
11	NNE	NNE	NE	S	C	NNE	N	WSW	C	C	C	C
12	NNE	NE	NE	NE	NE	NE	C	C	C	C	C	C
13	NE	NE	NNE	SSW	SSW	C	C	C	C	C	C	C
14	NNE	NE	NE	NE	C	SSW	C	SSW	SW	C	C	C
15	NNE	NNE	NNE	NNE	NE	C	NNE	NNE	NNE	NNW	C	C
16	NE	NE	NNE	NE	NNE	N	N	WSW	C	C	WSW	C
17	NNE	N	E	E	E	E	E	E	C	C	C	C
18	E	ESE	E	E	E	E	E	C	C	C	C	C
19	NNE	NNE	NNE	NNE	NNE	NNE	C	C	C	C	NNE	C
20	SE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE
21	NNE	NNE	NNE	NNW	SSW	S	SSW	SSW	SSW	C	C	C
22	NNE	N	NNE	NNE	NNE	NNE	S	S	S	S	S	C
23	NE	N	NNE	N	N	S	S	S	C	C	C	C
24	NE	NNE	NNE	N	SW	SW	SW	SW	C	SSW	SSW	SSW
25	NE	NNE	NE	NNE	NNE	NNE	C	NNE	NNE	NE	C	C
26	NE	NNE	NNW	SW	SSW	SSW	C	C	C	SSW	SSW	SSW
27	N	NE	NE	NNE	NE	NNE	SSW	S	S	C	C	SSW
28	NNE	NE	NNE	NE	N	N	N	SSE	SE	C	C	C
29	NE	NNE	N	NNE	N	WNW	SW	SW	C	C	SW	SW
30	NE	N	NNE	NNE	N	N	SW	SW	SW	C	SW	SW
31	NW	NNE	NNE	NNW	SSW	SW	SSW	SSW	C	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	1.6	3.2	4.8	5.6	6.4	4.0	4.8	5.6	8.0	8.0	4.8	4.8	—
	2	3.2	0.8	0.0	0.0	2.4	2.4	1.6	8.0	8.9	6.4	4.8	4.8	—
	3	3.2	0.8	0.8	0.8	0.8	3.2	10.5	10.5	9.7	8.0	5.6	4.8	—
	4	3.2	4.0	4.8	4.8	0.8	8.0	5.6	5.6	8.0	8.0	7.2	6.4	—
	5	3.2	5.6	7.2	7.2	5.6	5.6	5.6	7.2	6.4	4.8	5.6	8.0	—
	6	0.8	0.8	0.0	0.0	0.8	1.6	4.0	3.2	4.0	3.2	4.8	6.4	—
	7	0.8	0.8	0.8	1.6	0.8	2.4	2.4	3.2	5.6	8.9	9.7	12.1	—
	8	1.6	0.8	0.0	0.0	0.0	0.0	2.4	8.0	16.1	16.1	15.3	14.5	—
	9	0.8	0.0	0.8	0.8	0.8	0.8	4.0	9.7	16.9	18.5	19.3	16.1	—
	10	4.8	1.6	3.2	1.6	0.8	1.6	0.0	0.0	3.2	4.8	6.4	8.0	—
	11	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.8	4.8	10.5	12.9	12.1	—
	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	2.4	7.2	—
	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.0	8.0	9.7	18.5	—
	14	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.0	6.4	4.8	4.0	9.7	—
	15	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	4.8	4.8	6.4	8.0	—
	16	0.0	0.0	0.0	0.0	0.0	0.8	4.0	4.0	4.0	4.0	6.4	7.2	—
	17	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.0	3.2	5.6	12.9	10.5	—
	18	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	2.4	6.4	11.3	16.9	—
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	6.4	7.2	8.0	9.7	—
	20	0.0	0.0	0.0	0.0	0.8	0.8	3.2	1.6	4.8	4.8	7.2	9.7	—
	21	0.0	0.8	0.8	0.0	0.0	0.0	3.2	3.2	2.4	4.8	8.0	10.5	—
	22	0.0	0.0	0.0	0.0	9.7	9.7	2.4	1.6	2.4	1.6	2.4	6.4	—
	23	0.0	0.0	0.0	2.4	4.8	0.8	1.6	0.0	0.8	0.8	4.8	9.7	—
	24	0.0	0.0	0.0	0.0	0.0	0.8	2.4	1.6	1.6	8.0	10.5	12.1	—
	25	0.0	0.8	0.0	1.6	3.2	0.0	3.2	2.4	4.8	5.6	8.9	10.5	—
	26	0.0	2.4	1.6	0.0	0.8	4.8	6.4	4.8	4.8	5.6	4.8	10.5	—
	27	2.4	1.6	1.6	0.0	0.0	0.8	1.6	2.4	8.0	10.5	11.3	12.1	—
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6	3.2	5.6	—
	29	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0	1.6	2.4	3.2	4.8	—
	30	0.8	0.0	0.0	0.0	0.8	3.2	3.2	4.8	6.4	4.0	5.6	4.8	—
	31	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	4.0	2.4	2.4	2.4	—
Hourly Means.		0.85	0.77	0.85	0.85	1.32	1.73	2.66	3.44	5.38	6.18	7.41	9.19	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	6.4	7.2	9.7	8.0	8.0	3.2	0.0	0.0	6.4	6.4	4.0	1.6	5.10
	2	6.4	7.2	9.7	8.0	5.6	1.6	1.6	6.4	5.6	5.6	4.8	3.2	4.54
	3	8.0	12.9	11.3	9.7	3.2	0.0	1.6	4.8	4.0	4.0	4.8	4.8	5.33
	4	6.4	11.3	13.7	9.7	4.0	2.4	0.0	0.0	0.0	0.8	2.4	4.0	5.05
	5	9.7	12.9	11.3	9.7	8.0	5.6	0.8	0.8	1.6	2.4	1.6	3.2	5.82
	6	8.9	11.3	12.9	11.3	7.2	1.6	0.0	0.0	0.8	1.6	0.8	1.6	3.65
	7	16.9	19.3	15.3	15.3	14.5	8.0	2.4	0.0	1.6	0.8	0.0	0.0	5.97
	8	16.1	22.5	18.5	18.5	13.7	8.0	1.6	0.0	0.0	0.8	0.8	1.6	7.37
	9	18.5	16.1	9.7	7.2	1.6	3.2	1.6	0.0	2.4	4.0	1.6	3.2	6.57
	10	12.1	12.1	10.5	15.3	9.7	3.2	0.8	0.0	0.0	0.0	0.0	0.0	4.15
	11	15.3	12.1	10.5	4.8	0.0	1.6	1.6	0.8	0.0	0.0	0.0	0.0	3.73
	12	8.9	12.1	13.7	12.1	9.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.99
	13	22.5	8.0	9.7	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.72
	14	8.9	11.3	6.4	2.4	0.0	4.8	0.0	1.6	5.6	0.0	0.0	0.0	3.01
	15	9.7	12.1	12.9	11.3	4.8	0.0	0.8	1.6	1.6	1.6	0.0	0.0	3.45
	16	12.9	12.1	10.5	12.9	4.8	0.8	4.0	1.6	0.0	0.0	0.8	0.0	3.78
	17	6.4	9.7	21.7	17.7	12.9	2.4	0.8	1.6	0.0	0.0	0.0	0.0	4.63
	18	17.7	15.3	12.9	16.1	10.5	4.8	1.6	0.0	0.0	0.0	0.0	0.0	4.93
	19	11.3	11.3	11.3	10.5	6.4	2.4	0.0	0.0	0.0	0.0	0.8	0.0	3.69
	20	9.7	13.7	12.1	11.3	7.2	3.2	2.4	3.2	1.6	2.4	0.8	0.8	4.22
	21	14.5	17.7	9.7	4.8	6.4	3.2	3.2	1.6	0.8	0.0	0.0	0.0	3.98
	22	8.0	8.0	11.3	6.4	4.0	4.8	3.2	1.6	0.8	0.8	0.8	0.0	3.58
	23	12.1	4.8	6.4	6.4	4.8	5.6	3.2	0.8	0.0	0.0	0.0	0.0	2.91
	24	15.3	15.3	15.3	12.9	3.2	6.4	4.8	1.6	0.0	0.8	0.8	0.8	4.76
	25	13.7	14.5	12.1	12.1	8.0	1.6	0.0	1.6	3.2	1.6	0.0	0.0	4.56
	26	12.9	8.0	4.8	2.4	5.6	2.4	0.0	0.0	0.0	1.6	4.0	5.6	3.91
	27	10.5	14.5	15.3	12.9	9.7	3.2	8.9	5.6	2.4	0.0	0.0	0.8	5.67
	28	11.3	8.9	9.7	7.2	3.2	1.6	8.0	3.2	0.8	0.0	0.0	0.0	2.78
	29	7.2	11.3	9.7	7.2	3.2	4.8	4.0	1.6	0.0	0.0	0.8	1.6	2.71
	30	8.9	12.1	11.3	12.1	6.4	4.8	4.8	4.8	0.8	0.0	0.8	0.8	4.22
	31	5.6	8.0	9.7	5.6	14.5	4.0	2.4	0.8	0.0	0.0	0.0	0.0	2.78
Hourly Means.		11.38	12.05	11.60	9.86	6.55	3.25	2.07	1.47	1.29	1.14	0.98	1.08	4.31

CLOUDS.

CLEAR = 0. OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	6	1	2	2	3	3	2	2	1	1	1	1	—
	2	3	5	3	2	2	4	4	6	1	1	2	4	—
	3	5	7	10	4	2	1	0	0	1	0	2	4	—
	4	1	0	2	4	3	6	6	1	1	1	1	0	—
	5	1	1	0	0	1	1	1	0	0	1	3	4	—
	6	1	6	2	1	3	2	2	2	3	2	4	4	—
	7	3	2	1	0	0	4	6	6	5	7	6	6	—
	8	1	0	0	0	0	0	3	0	3	5	5	6	—
	9	4	3	4	7	6	8	1	2	4	5	6	9	—
	10	10	10	10	10	10	10	8	4	4	5	7	9	—
	11	9	9	10	7	9	8	10	6	5	5	7	7	—
	12	8	7	6	6	6	6	2	2	2	3	6	6	—
	13	1	3	5	2	2	4	0	8	7	10	6	3	—
	14	3	4	3	2	4	5	2	2	4	4	5	5	—
	15	6	6	4	4	3	3	2	1	3	7	6	8	—
	16	4	3	4	3	4	5	2	0	0	2	5	4	—
	17	7	6	5	4	4	5	5	3	4	3	4	6	—
	18	0	0	0	1	2	5	10	7	6	7	7	10	—
	19	1	1	0	1	2	4	3	2	1	3	5	6	—
	20	2	3	4	4	3	5	9	9	8	8	8	9	—
	21	7	4	4	9	8	6	3	3	4	3	6	6	—
	22	8	7	10	10	10	10	10	10	8	9	8	6	—
	23	1	2	1	0	6	7	7	10	10	10	10	7	—
	24	4	3	2	0	1	7	2	1	1	4	5	5	—
	25	3	3	4	6	7	6	6	7	7	5	6	5	—
	26	2	3	2	2	3	4	4	2	4	4	7	7	—
	27	8	7	6	6	5	4	4	4	6	6	7	8	—
	28	10	10	8	9	9	9	2	7	7	7	8	9	—
	29	10	7	9	10	7	6	5	4	5	5	5	6	—
	30	10	10	8	7	5	8	6	4	6	7	7	7	—
	31	6	4	9	8	9	8	7	7	8	9	9	9	—
Hourly Means.		4.7	4.4	4.5	4.2	4.5	5.3	4.3	3.9	4.2	4.8	5.6	6.0	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	5	3	2	2	1	3	2	1	4	0	0	1	2.0
	2	4	3	3	4	6	8	9	8	6	7	8	9	4.7
	3	5	4	3	2	3	4	4	1	7	4	2	0	3.1
	4	0	0	0	6	7	10	4	3	2	3	1	2	2.7
	5	3	3	2	1	1	4	6	5	5	6	3	2	2.3
	6	5	4	6	8	9	4	1	0	0	0	0	1	2.9
	7	3	4	2	1	1	2	1	7	3	3	2	0	3.1
	8	6	2	3	1	3	2	2	4	6	5	2	7	2.8
	9	7	8	9	10	10	10	9	9	9	10	10	10	7.1
	10	8	9	9	9	9	9	10	10	10	10	10	10	8.8
	11	9	9	9	10	10	10	10	9	9	4	1	0	7.6
	12	7	5	7	7	7	6	3	2	2	1	3	2	4.7
	13	7	9	9	9	10	10	9	8	6	6	4	4	5.9
	14	6	7	8	10	10	10	10	10	10	10	10	10	6.4
	15	6	4	3	2	3	6	10	10	6	7	9	10	5.4
	16	3	8	7	3	3	2	1	1	0	10	7	1	3.4
	17	6	7	3	3	2	3	2	1	1	0	0	1	3.5
	18	8	9	9	6	6	7	3	3	2	3	2	2	4.8
	19	6	6	5	5	3	4	3	3	1	2	4	4	3.1
	20	8	8	9	6	5	10	10	10	10	10	10	10	7.4
	21	9	8	8	7	10	10	10	8	9	1	0	0	6.0
	22	5	3	3	3	4	7	5	4	3	6	4	3	6.5
	23	4	10	9	8	9	10	7	9	10	10	10	6	7.2
	24	4	2	6	6	9	8	7	8	9	5	6	4	4.5
	25	6	5	4	4	5	6	5	6	10	10	10	10	6.4
	26	9	9	9	7	9	6	10	10	9	7	3	4	5.7
	27	4	3	3	3	4	4	10	9	10	10	10	10	6.3
	28	7	7	8	8	10	10	10	10	10	10	10	7	8.4
	29	10	6	7	6	7	10	10	10	10	10	9	10	7.7
	30	7	7	6	7	9	10	9	7	7	8	7	6	7.3
	31	9	9	9	9	10	9	10	10	9	10	7	3	8.2
Hourly Means.		6.0	5.8	5.8	5.6	6.3	6.9	6.5	6.3	6.3	6.4	5.3	4.8	5.34

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER. 1	7.6	8.6	5.9	6.5	5.9	6.5	6.5	3.8	5.9	4.9	3.8	3.8	—
2	4.9	5.4	3.8	3.8	4.9	2.7	2.7	2.2	2.7	2.2	— 1.1	0.5	—
3	1.6	4.9	7.0	4.3	9.2	8.1	3.2	4.3	2.7	1.6	2.2	1.1	—
4	4.9	5.4	4.9	5.9	6.5	3.8	5.9	6.5	4.3	0.5	2.2	3.2	—
5	5.9	3.2	2.2	— 3.2	— 7.6	— 0.5	2.2	— 8.6	4.3	— 2.7	— 0.5	— 5.9	—
6	— 5.4	— 0.5	8.6	16.7	5.4	— 4.9	10.3	5.9	— 5.4	3.8	— 0.5	1.1	—
7	20.0	2.7	6.5	— 0.5	9.2	5.4	7.6	2.2	3.2	2.2	1.1	1.1	—
8	13.0	11.9	8.1	9.7	10.8	6.5	11.3	4.9	— 0.5	1.1	— 0.5	— 0.5	—
9	11.3	10.3	14.6	11.9	10.8	13.0	13.0	—	—	—	—	—	—
10	—	—	—	—	—	—	—	3.2	5.9	4.9	4.9	2.7	—
11	9.2	14.6	9.7	2.2	7.0	1.6	— 9.2	— 2.7	4.9	3.2	2.7	2.2	—
12	4.3	9.7	12.4	12.4	12.4	14.6	11.3	2.2	4.3	3.8	6.5	5.9	—
13	20.0	18.4	16.7	16.2	13.5	8.1	13.0	P	P	4.9	3.2	10.8	—
14	22.1	27.5	20.5	17.3	14.6	17.8	14.6	9.7	7.6	3.2	2.7	2.2	—
15	7.6	10.3	9.7	9.7	13.5	8.6	10.8	7.0	5.4	3.2	2.7	3.2	—
16	1.6	2.7	2.2	3.8	1.1	0.0	1.6	1.6	3.2	1.6	2.2	1.1	—
17	13.5	13.5	13.5	12.4	12.4	8.1	9.7	4.3	4.3	4.9	3.2	— 1.6	—
18	15.1	12.4	11.3	10.3	11.3	10.8	6.5	8.6	8.1	4.3	3.8	— 2.7	—
19	18.9	19.4	15.7	13.0	12.4	10.8	12.4	5.4	4.9	2.7	2.2	1.6	—
20	16.2	10.3	10.3	10.3	9.7	16.2	11.9	7.0	3.8	1.1	1.6	2.2	—
21	7.6	7.6	8.1	7.6	7.6	8.1	15.7	7.0	5.9	3.2	2.7	2.2	—
22	21.6	13.0	11.9	10.3	14.0	N	P	11.9	4.3	3.8	4.3	2.2	—
23	9.7	8.1	9.2	14.0	37.8	13.5	10.3	9.7	9.7	7.6	3.8	2.7	—
24	14.0	11.9	12.4	10.8	8.6	10.8	14.0	5.9	5.4	3.2	3.8	3.2	—
25	11.3	13.5	13.5	10.3	7.0	12.4	9.7	5.4	5.9	5.4	4.9	4.3	—
26	10.3	9.2	5.9	5.9	5.4	5.4	10.8	4.3	3.8	3.8	2.7	— 0.5	—
27	8.1	8.6	9.2	8.6	9.7	11.9	10.8	6.5	3.8	2.7	2.7	— 0.5	—
28	10.3	9.2	7.6	9.2	10.8	10.3	25.4	8.1	7.0	4.9	2.7	2.2	—
29	16.7	13.5	8.1	10.3	14.0	12.4	14.0	4.3	4.9	3.2	4.9	3.2	—
30	8.6	9.2	7.0	7.0	5.9	7.6	8.6	—	—	—	—	—	—
31	9.2	10.3	7.0	7.0	9.7	8.1	6.5	4.3	4.3	2.7	2.7	4.9	—
Hourly Means.	10.7	10.2	9.5	8.8	9.8	8.2	9.3	4.8	4.5	3.2	2.7	1.9	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER. 1	3.2	0.5	— 1.1	4.3	2.7	—10.8	1.6	5.4	4.3	4.3	4.3	3.8	3.8
2	0.0	— 4.6	0.0	1.1	3.2	— 0.5	1.1	2.2	2.2	2.7	2.7	2.2	2.0
3	— 2.2	— 3.8	— 1.6	— 1.1	— 0.5	— 1.6	2.2	8.1	5.4	4.9	3.8	3.8	2.8
4	— 0.5	— 1.1	— 7.0	— 2.2	— 3.2	— 2.2	— 2.7	8.1	16.7	16.7	— 4.6	— 9.7	2.6
5	— 1.1	— 9.7	— 2.7	— 5.4	— 5.9	— 1.6	5.4	5.9	10.3	10.8	5.9	— 2.7	— 0.1
6	— 1.1	0.0	2.2	1.1	3.8	4.9	9.2	10.8	17.3	11.3	11.3	15.7	5.1
7	— 1.6	— 9.7	— 2.7	— 9.7	— 0.5	4.3	5.9	10.3	13.5	10.8	10.3	10.3	4.2
8	— 5.4	—13.5	— 5.4	—16.2	1.6	2.7	5.9	9.7	15.1	14.0	14.6	15.7	4.8
9	—	—	—	—	—	—	—	—	—	—	—	—	12.1
10	2.7	4.3	6.5	4.3	4.9	5.4	8.6	11.9	22.7	13.0	13.0	8.6	7.5
11	1.1	N	4.9	N	4.3	3.8	6.5	7.0	3.2	1.1	4.9	9.2	4.2
12	10.8	3.8	N	37.8	3.2	6.5	10.3	22.7	17.3	18.4	22.7	18.4	11.8
13	P	2.7	N	P	P	N	21.6	29.7	29.2	25.9	20.5	22.1	16.3
14	2.7	N	N	— 8.1	N	PN	PN	PN	PN	P	25.9	9.2	11.9
15	2.2	1.6	1.6	0.5	9.2	P	—16.2	14.6	7.6	8.6	10.3	3.2	5.9
16	0.0	1.1	N	2.7	5.9	8.6	9.2	9.2	11.3	11.3	8.1	11.3	4.4
17	3.2	4.9	— 5.4	2.7	0.0	3.2	0.5	20.5	17.3	18.9	22.7	16.7	8.5
18	8.1	3.8	1.6	2.2	2.7	7.6	8.6	15.7	21.6	24.3	23.2	25.4	10.2
19	1.6	2.7	— 1.6	3.8	4.9	7.6	10.8	25.9	25.4	20.5	21.1	15.7	10.7
20	1.6	2.7	1.6	2.2	1.6	9.2	14.6	13.0	6.5	7.0	7.6	7.6	7.3
21	N	—10.8	23.2	16.2	PN	PN	— 1.1	5.4	10.3	11.9	18.9	20.5	8.5
22	5.4	3.8	2.7	— 8.1	8.1	29.2	P	— 7.6	16.7	9.7	8.6	7.6	8.3
23	3.2	2.7	3.8	7.6	24.3	PN	19.4	10.8	14.0	10.3	14.0	13.5	11.3
24	2.7	1.6	0.0	0.0	12.4	5.9	9.2	9.7	13.0	14.0	13.0	11.9	8.2
25	2.2	0.5	— 2.2	— 1.1	2.7	7.6	8.6	21.1	10.8	8.6	9.2	11.3	7.6
26	2.2	N	PN	P	N	N	17.8	13.0	15.7	18.9	12.4	9.2	8.2
27	2.7	— 1.1	0.5	0.5	6.5	P	P	P	N	5.4	5.9	7.6	5.5
28	2.7	2.7	2.2	3.2	5.4	—11.3	P	PN	N	2.2	15.7	25.4	7.4
29	4.3	5.4	5.9	10.8	34.6	2.2	9.2	6.5	8.6	11.3	14.0	10.8	9.7
30	7.0	3.8	— 1.6	5.9	10.8	21.1	23.2	10.3	10.3	11.9	13.0	9.7	9.4
31	4.3	3.2	—	PN	PN	N	— 6.5	—27.0	8.1	15.1	14.6	14.6	5.2
Hourly Means.	2.2	— 0.9	1.1	2.1	5.7	4.6	7.0	10.1	13.1	11.9	12.3	11.0	6.86

BAROMETRIC PRESSURE.

BAROMETER AT 0°C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

NOVEMBER.	Mean Batavia Time. 1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	9.30	8.37	8.13	8.10	8.27	8.92	9.50	9.76	9.94	9.79	9.48	8.79	—
2	9.02	8.62	8.23	8.15	8.36	8.88	9.45	9.96	10.31	10.28	10.29	9.83	—
3	9.64	9.17	8.98	8.93	9.28	9.53	10.01	10.39	10.78	10.60	10.38	9.70	—
4	9.56	9.06	8.93	8.90	9.07	9.35	9.73	10.05	10.20	10.10	9.60	9.00	—
5	8.95	8.87	8.40	8.37	8.70	8.97	9.43	10.10	9.96	9.83	9.50	8.78	—
6	8.58	8.18	7.95	7.85	8.00	8.06	8.96	9.30	9.41	8.94	8.86	8.38	—
7	8.32	7.93	7.91	7.92	8.23	8.70	9.26	9.68	9.79	9.41	9.33	8.70	—
8	8.74	8.40	8.26	8.27	8.68	9.01	9.44	9.63	9.60	9.34	9.14	8.33	—
9	8.85	8.66	8.51	8.42	8.75	8.96	9.20	9.30	9.32	9.10	8.63	7.89	—
10	8.55	8.11	7.82	7.78	8.25	8.71	9.23	9.58	9.65	9.38	8.88	8.38	—
11	7.86	7.41	7.41	7.72	7.84	8.25	9.04	9.49	9.60	9.39	8.88	8.27	—
12	9.34	9.04	8.80	8.86	9.10	9.50	9.86	10.19	10.27	9.87	9.36	8.55	—
13	9.01	8.46	8.31	8.47	8.79	9.15	9.75	9.99	10.14	9.99	9.56	8.74	—
14	8.66	8.17	7.90	7.92	8.30	8.92	9.41	9.54	9.69	9.58	8.98	8.68	—
15	8.35	7.96	7.97	7.89	8.31	8.64	8.86	9.22	9.28	9.38	9.04	8.58	—
16	9.16	8.67	8.09	8.37	8.53	9.12	9.58	10.19	10.30	9.85	9.29	8.40	—
17	8.37	8.05	7.79	7.76	8.22	8.45	8.81	9.10	9.28	9.16	8.79	7.78	—
18	8.40	8.01	7.79	7.66	7.82	7.94	8.85	9.15	9.38	9.22	8.77	8.21	—
19	8.77	8.22	8.14	8.40	8.66	9.02	9.59	10.06	10.37	10.15	9.65	9.41	—
20	9.25	8.60	8.77	9.01	8.77	9.24	9.69	10.04	10.18	9.78	10.15	9.50	—
21	9.18	8.91	8.62	8.22	8.53	8.88	9.76	10.04	10.30	10.19	9.64	8.89	—
22	9.28	8.81	8.67	8.68	8.68	9.20	9.73	10.39	10.13	9.78	9.02	8.38	—
23	8.46	8.04	7.60	7.61	8.12	8.75	9.12	9.53	9.73	9.70	9.76	9.29	—
24	8.57	7.87	7.49	7.51	7.90	8.31	8.45	8.85	9.04	8.89	8.33	7.48	—
25	8.06	7.81	7.42	7.27	7.53	7.70	8.22	8.65	8.75	8.70	8.28	7.88	—
26	7.93	7.93	7.60	7.66	7.66	8.10	9.07	9.76	10.10	9.99	9.57	9.26	—
27	8.12	8.05	7.72	7.73	7.95	8.36	9.11	9.63	9.76	9.58	8.75	8.33	—
28	8.22	7.75	7.42	7.20	7.53	7.95	8.63	8.88	9.05	8.78	8.52	7.98	—
29	8.41	8.07	7.95	8.03	8.30	8.56	9.53	9.79	9.80	9.63	9.16	8.67	—
30	9.12	8.74	8.65	8.57	8.93	9.21	9.56	9.91	10.14	10.15	9.79	9.02	—
Hourly Means.	8.73	8.33	8.11	8.11	8.37	8.74	9.29	9.67	9.80	9.62	9.25	8.64	—

NOVEMBER.	Mean Batavia Time. 1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.04	7.31	6.93	7.44	8.84	8.51	8.81	9.17	9.73	9.99	9.85	9.55	8.86
2	9.47	8.90	8.58	8.53	8.78	9.23	9.02	9.80	10.31	10.58	10.40	10.03	9.38
3	8.88	8.37	7.70	7.70	8.09	8.88	10.08	10.24	10.64	10.57	10.29	10.00	9.53
4	8.63	8.09	7.77	7.54	7.85	8.32	8.48	8.89	9.40	9.32	9.34	8.84	9.00
5	7.90	7.80	7.45	7.23	7.84	8.57	9.16	9.43	10.06	10.14	9.70	9.13	8.92
6	7.39	6.76	6.53	7.18	7.43	7.62	8.09	8.81	9.17	9.29	9.05	8.71	8.26
7	8.19	7.56	7.12	7.50	7.49	8.00	8.35	9.02	9.44	9.62	9.44	8.97	8.58
8	7.32	6.82	6.31	6.46	7.18	7.96	8.99	9.25	9.60	9.80	9.81	9.35	8.57
9	7.22	7.01	6.46	6.97	6.85	7.59	7.91	8.56	8.86	9.31	8.99	8.66	8.33
10	7.57	6.75	6.50	6.49	6.60	7.12	7.35	7.99	8.63	8.89	8.87	8.47	8.15
11	7.47	6.49	6.53	6.98	7.53	8.02	8.58	9.00	9.47	9.69	9.70	9.63	8.34
12	8.01	7.51	6.92	6.57	7.19	7.96	8.40	9.13	9.83	10.00	9.95	9.48	8.90
13	7.76	6.99	6.73	6.34	6.43	7.37	8.40	9.00	9.64	9.74	9.80	9.40	8.67
14	7.88	7.23	6.53	6.46	6.97	7.44	7.74	8.03	8.83	9.16	8.94	8.70	8.32
15	7.66	7.06	6.54	6.94	7.54	8.40	8.85	9.44	10.27	10.08	9.62	9.49	8.56
16	7.32	6.72	6.32	6.22	6.68	7.46	8.47	8.78	9.56	9.73	9.63	9.14	8.57
17	7.32	7.27	7.07	7.01	7.41	7.87	8.42	9.05	9.32	9.29	9.22	8.81	8.32
18	7.51	7.79	7.15	7.20	6.89	7.14	7.76	8.44	9.06	9.30	9.32	8.85	8.23
19	8.68	8.00	7.55	7.55	7.85	8.22	8.81	9.47	9.74	10.07	9.78	9.25	8.98
20	8.82	8.41	7.89	7.84	8.17	8.84	9.29	9.90	10.54	10.45	10.18	9.75	9.29
21	7.89	7.38	7.18	7.39	8.18	8.59	9.59	10.27	10.59	10.90	10.85	10.23	9.18
22	7.73	7.34	7.32	7.07	7.42	7.88	8.93	9.23	9.93	9.92	9.74	9.09	8.85
23	8.51	7.59	6.99	6.59	6.79	7.44	8.30	9.02	9.49	9.55	9.38	9.01	8.32
24	7.16	6.58	6.41	6.50	7.14	8.10	8.54	8.85	8.61	8.84	8.86	8.37	8.03
25	7.30	6.69	6.03	5.74	6.27	7.32	8.99	9.69	9.85	9.71	9.60	8.92	8.02
26	8.47	7.84	7.54	7.31	7.79	8.56	8.84	9.01	9.11	9.04	9.01	8.70	8.58
27	7.90	7.30	6.63	6.61	6.62	7.07	7.63	8.41	9.08	8.90	8.84	8.55	8.19
28	7.07	6.20	6.28	5.70	5.97	6.95	7.98	8.45	8.95	9.09	9.26	8.97	7.87
29	7.79	7.13	6.97	6.99	8.04	8.64	8.85	9.44	9.58	9.75	9.85	9.12	8.67
30	8.55	7.83	7.71	8.02	8.38	8.66	9.33	9.87	10.00	10.03	9.80	9.43	9.14
Hourly Means.	7.91	7.36	6.98	7.00	7.41	7.99	8.60	9.12	9.58	9.69	9.57	9.15	8.63

STANDARD THERMOMETER.

NOVEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	73.5	73.2	73.0	73.0	72.7	72.5	74.3	76.8	79.7	83.3	85.9	88.0	—
2	73.5	73.5	73.2	73.0	72.6	72.3	73.0	74.5	75.5	76.6	77.9	79.0	—
3	74.3	74.2	74.2	74.2	73.7	73.4	74.4	76.4	78.8	81.0	81.8	83.0	—
4	74.8	74.8	74.2	74.2	74.0	73.8	74.3	75.6	77.0	79.0	80.6	82.5	—
5	75.3	75.0	74.4	73.8	73.5	73.1	74.0	75.8	78.6	79.3	80.8	81.3	—
6	73.7	73.3	73.3	73.7	73.7	73.0	74.2	75.7	80.3	84.0	85.3	85.2	—
7	74.6	74.2	74.0	73.8	73.5	73.2	73.7	75.0	77.1	79.5	81.2	82.4	—
8	75.2	75.2	75.0	74.8	74.3	74.0	74.5	77.0	80.0	83.0	84.0	85.1	—
9	74.8	74.8	75.0	74.4	74.4	74.0	75.7	78.3	81.2	82.4	85.8	86.9	—
10	74.8	74.4	74.2	73.9	73.8	73.4	74.3	76.3	79.0	81.4	82.5	82.0	—
11	76.0	75.6	75.3	75.0	75.0	75.3	76.1	78.7	82.0	84.0	85.1	85.7	—
12	75.8	75.4	75.0	74.6	74.2	74.0	74.1	77.3	80.0	83.2	84.2	84.5	—
13	75.2	75.3	74.9	74.7	74.5	74.2	76.0	79.0	82.0	85.0	85.0	85.8	—
14	75.1	74.7	74.5	74.2	73.7	73.7	75.0	77.7	81.0	82.4	84.0	85.2	—
15	76.7	76.0	75.8	75.0	74.8	74.7	75.8	78.4	81.1	83.7	83.8	85.4	—
16	75.0	74.3	74.1	73.6	73.5	73.1	74.5	77.5	79.9	81.9	84.8	87.0	—
17	76.2	75.5	75.0	74.7	74.2	74.4	76.0	79.5	81.9	85.5	86.0	87.8	—
18	75.7	75.0	74.6	74.4	74.0	74.2	75.6	78.0	81.2	85.0	86.2	86.0	—
19	75.1	75.1	74.9	74.9	74.8	75.0	76.0	77.2	78.6	82.0	83.4	77.3	—
20	76.0	75.8	73.8	73.3	73.4	73.4	74.0	76.0	79.0	80.8	74.1	74.9	—
21	74.4	74.2	74.1	74.0	73.8	73.8	74.5	75.3	77.1	79.1	81.1	83.1	—
22	73.8	73.8	73.8	73.8	73.4	73.2	74.7	76.9	78.5	80.5	81.9	83.7	—
23	76.3	76.3	75.5	75.1	74.9	74.7	75.2	77.5	80.0	83.0	80.0	77.0	—
24	76.0	75.3	75.0	75.0	74.7	74.7	76.1	77.8	81.3	84.0	84.9	84.7	—
25	74.4	74.4	74.1	73.9	73.5	73.5	74.6	77.6	80.2	82.4	84.4	85.0	—
26	74.0	74.1	74.1	74.1	74.3	74.8	76.0	78.0	80.0	82.5	84.3	83.0	—
27	73.8	73.1	73.1	72.9	72.5	73.0	73.9	76.0	78.5	81.0	82.9	84.6	—
28	75.6	74.9	74.5	74.0	73.7	73.5	74.8	78.2	81.0	84.0	85.2	87.0	—
29	75.5	75.2	74.7	74.9	75.0	74.6	75.4	77.6	80.3	82.6	84.1	84.9	—
30	75.0	74.7	74.2	74.0	73.5	73.3	74.1	76.4	78.4	80.8	83.7	84.6	—
													—
Hourly Means.	75.00	74.71	74.38	74.16	73.92	73.79	74.83	77.07	79.64	82.10	83.16	83.75	—

NOVEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	87.2	85.9	84.9	84.0	75.2	73.5	73.4	73.7	73.5	73.5	73.4	73.3	77.39
2	80.0	80.6	81.4	81.4	81.1	76.8	76.0	75.5	75.3	75.4	75.0	74.8	76.16
3	83.1	83.0	83.5	82.5	81.9	80.3	76.6	76.5	76.2	75.2	75.1	75.1	77.85
4	82.7	83.4	83.4	83.2	83.1	80.0	78.6	77.8	77.7	77.2	76.7	76.0	78.11
5	84.0	79.2	78.9	79.4	78.3	77.0	76.5	75.5	75.0	75.0	74.6	74.4	76.78
6	85.0	84.8	84.5	77.2	76.6	76.0	75.8	75.6	75.4	75.2	75.2	75.0	77.57
7	82.8	83.1	83.3	81.5	80.0	78.9	78.1	77.5	77.0	76.7	76.1	75.5	77.61
8	87.2	86.2	85.0	84.5	82.0	74.0	74.4	74.9	74.9	74.6	74.8	74.9	78.31
9	84.0	83.5	83.3	81.0	79.2	78.2	76.6	76.0	75.5	75.5	75.5	75.1	78.38
10	83.4	84.1	83.3	84.1	83.0	80.4	80.0	79.0	79.0	77.5	76.1	76.1	78.58
11	85.8	84.8	85.0	84.0	80.1	78.1	78.2	77.7	77.0	77.0	76.8	76.1	79.35
12	85.8	86.0	85.2	85.2	83.8	81.0	78.8	77.0	76.6	76.0	75.2	75.2	79.09
13	85.9	86.2	85.7	84.1	83.2	82.6	80.8	79.0	77.8	77.0	76.6	75.7	79.84
14	86.2	86.6	86.0	85.4	83.5	81.2	80.0	79.0	78.1	77.6	77.8	77.2	79.58
15	84.6	86.1	85.4	84.2	80.0	78.4	78.0	77.2	77.0	76.5	76.0	75.4	79.17
16	87.9	86.9	86.0	85.8	83.9	82.6	81.0	80.1	79.5	77.6	77.1	76.7	79.76
17	86.0	86.2	84.0	82.6	81.6	80.4	79.4	78.9	78.6	77.8	77.0	76.3	79.81
18	85.8	81.6	79.0	78.0	77.5	77.2	76.7	76.5	76.3	76.1	75.8	75.3	78.15
19	80.6	82.1	82.1	82.0	81.8	80.8	79.6	78.5	77.8	77.5	77.0	76.4	78.35
20	75.4	76.0	77.2	78.2	78.6	77.9	77.2	76.2	76.0	75.2	75.0	74.6	75.92
21	82.9	83.5	83.2	81.8	77.0	76.4	76.2	76.0	75.6	75.6	75.2	74.4	77.18
22	84.5	83.6	83.5	83.9	82.8	81.5	81.1	80.0	79.2	78.6	77.9	77.3	78.83
23	77.4	78.8	79.0	79.0	79.3	78.7	78.0	77.4	77.0	76.5	76.2	76.0	77.45
24	84.7	85.0	82.6	82.0	79.0	76.4	75.1	74.7	75.0	74.6	74.5	74.2	78.22
25	85.1	85.6	84.8	84.1	83.0	81.0	75.0	74.4	74.2	74.0	74.0	74.0	78.22
26	83.8	83.6	82.2	81.3	80.0	78.2	77.2	76.6	76.2	75.6	74.8	74.3	78.04
27	85.4	85.6	85.6	85.2	84.1	82.1	80.9	79.7	78.8	78.0	77.1	76.7	78.94
28	87.7	88.3	78.8	80.6	80.7	80.0	79.0	78.4	77.5	77.0	76.9	76.5	79.08
29	85.2	86.4	82.8	83.8	79.4	77.0	76.0	75.3	75.1	75.2	75.5	75.0	78.40
30	85.0	85.7	83.5	79.7	78.3	77.7	76.5	76.2	76.0	75.2	74.4	74.2	77.71
Hourly Means.	84.17	84.08	83.10	82.32	80.60	78.81	77.69	77.03	76.63	76.15	75.78	75.39	78.26

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	920	929	937	946	955	946	921	858	810	685	649	650	—
	2	938	920	929	911	920	937	946	921	923	874	861	823	—
	3	930	921	930	930	929	938	913	899	837	755	728	690	—
	4	904	913	912	912	912	921	921	889	851	793	775	702	—
	5	914	913	921	929	938	946	938	881	830	839	789	755	—
	6	956	955	946	938	920	929	896	864	745	648	602	614	—
	7	947	956	947	938	938	955	947	922	859	773	741	716	—
	8	922	922	905	897	904	912	939	874	803	718	721	684	—
	9	965	965	956	965	965	965	957	885	806	773	687	678	—
	10	922	930	939	938	929	938	921	874	794	792	759	772	—
	11	915	923	939	947	947	930	915	846	758	648	678	668	—
	12	889	905	905	904	921	921	930	834	774	705	688	657	—
	13	880	872	879	897	913	930	889	809	736	650	669	634	—
	14	922	922	921	930	938	929	913	844	776	730	707	646	—
	15	932	940	931	947	939	939	905	861	820	699	734	659	—
	16	922	930	921	929	938	955	939	875	773	714	670	610	—
	17	899	905	914	922	921	913	890	781	729	616	618	601	—
	18	889	913	913	913	921	921	898	820	761	657	605	610	—
	19	947	939	939	939	947	947	915	859	846	750	691	883	—
	20	940	923	938	965	965	973	965	923	839	820	921	947	—
	21	913	913	921	930	947	956	965	966	907	839	806	658	—
	22	929	938	929	929	946	955	947	900	830	760	742	686	—
	23	906	915	948	947	939	947	914	844	787	745	825	875	—
	24	940	948	947	939	947	956	923	901	756	694	710	709	—
	25	956	947	965	956	965	965	939	867	811	745	709	691	—
	26	947	947	947	938	939	930	906	852	818	759	716	724	—
	27	887	911	886	894	910	894	912	825	763	762	712	676	—
	28	889	904	904	921	920	938	864	846	798	714	690	645	—
	29	931	905	930	897	897	913	898	844	804	724	715	690	—
	30	947	947	956	947	946	955	938	891	846	797	727	676	—
Hourly Means.		923	926	929	930	934	938	922	869	806	739	722	701	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	629	661	676	706	871	929	920	929	946	946	946	938	846
	2	781	760	713	763	798	874	889	914	922	905	914	922	877
	3	685	712	706	738	729	753	915	874	881	905	897	905	838
	4	675	691	712	697	697	773	822	844	820	827	866	898	822
	5	674	839	846	855	845	916	924	957	905	983	913	939	883
	6	665	651	688	858	915	915	940	940	939	957	947	956	849
	7	697	705	713	749	781	838	861	875	891	891	899	914	852
	8	635	663	711	743	800	903	939	947	947	956	956	956	848
	9	728	740	747	769	801	821	857	873	889	905	905	914	855
	10	754	708	733	707	732	834	855	862	869	892	899	899	844
	11	668	670	645	673	773	852	836	884	891	874	874	881	818
	12	623	587	626	626	686	782	830	842	873	848	871	871	796
	13	642	607	617	655	691	738	812	847	875	899	890	914	789
	14	662	613	605	621	699	776	825	854	868	892	892	916	808
	15	682	617	659	715	758	837	844	875	875	891	906	914	828
	16	583	627	655	668	735	759	775	810	816	875	891	899	803
	17	649	701	706	738	741	767	801	831	837	867	858	865	795
	18	630	763	831	852	867	851	874	882	890	915	915	930	834
	19	811	800	771	792	822	850	879	909	933	925	932	940	874
	20	939	948	907	893	893	917	932	915	899	931	939	991	926
	21	753	678	691	777	907	923	915	948	948	957	914	913	877
	22	676	726	740	720	738	798	797	817	823	853	867	883	830
	23	900	838	870	886	863	885	908	933	932	948	948	948	894
	24	696	697	787	815	878	890	930	939	939	947	956	956	867
	25	678	680	696	749	766	797	939	939	956	930	947	956	856
	26	653	665	721	712	743	790	827	817	808	832	863	870	822
	27	640	635	667	678	694	750	753	802	830	829	851	857	792
	28	643	621	862	880	804	864	870	869	892	916	899	899	836
	29	718	708	832	769	779	883	906	922	930	939	940	956	851
	30	677	687	719	794	845	852	882	906	898	905	921	913	857
Hourly Means.		695	700	728	753	788	837	869	885	891	905	907	917	842

DIRECTION OF THE WIND.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
NOVEMBER. 1	C	C	SSW	C	C	C	SW	SW	SW	SW	SSW	SW
2	C	C	C	C	C	C	C	C	SW	SW	SW	SW
3	C	C	C	C	C	SSW	C	SSW	SSW	SSW	SSW	SSW
4	SSW	SSW	SSW	C	C	C	C	C	SSW	SSW	SSW	NW
5	C	C	C	C	C	C	SSW	C	SSW	SSW	SSW	NNE
6	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	S	SSW
7	C	C	C	C	C	C	C	SSE	SSE	S	SSE	ESE
8	C	WNW	WNW	WSW	WSW	WSW	WSW	S	SE	SE	E	E
9	C	C	C	C	C	C	WNW	WNW	S	E	ESE	N
10	C	C	C	C	C	C	W	W	W	W	W	NNE
11	C	S	C	C	C	C	S	S	NW	NNE	NE	N
12	SSE	SE	SE	SE	SE	C	SE	S	S	S	ENE	N
13	SSW	SSW	SSW	C	C	C	SSW	SW	SSW	WSW	NW	N
14	C	C	C	C	C	C	WSW	WSW	WNW	WNW	N	NNE
15	C	C	C	C	C	C	C	WSW	WSW	WSW	NNW	NNE
16	C	C	C	C	SW	SW	SW	SW	WNW	WSW	WNW	W
17	C	C	C	C	C	WNW	WNW	WSW	WSW	SW	NW	WNW
18	C	C	C	WNW	WNW	WNW	W	W	WSW	SW	SSE	ENE
19	SW	SW	SW	SW	SW	SW	SE	ESE	S	SE	ENE	NNE
20	NE	NE	N	NE	NE	NE	NE	C	NE	S	NNE	NNE
21	C	NNE	C	C	C	C	NNE	NNE	N	N	N	NNW
22	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	NW	NW	NNW
23	WNW	WNW	WNW	C	C	C	WNW	WNW	W	WNW	NNW	NNW
24	WSW	WSW	WSW	C	C	WSW	WSW	SSW	SE	ENE	NE	N
25	C	C	C	C	SSW	C	SSW	SSW	SSW	SSW	NNW	NE
26	S	C	C	C	C	S	SW	WSW	W	W	WSW	WSW
27	C	C	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW
28	C	C	C	C	C	C	W	W	WSW	W	WSW	NW
29	C	C	NW	NW	NW	C	NW	NW	W	NW	WNW	NNW
30	C	C	SSW	C	C	C	SSW	SSW	SSW	SW	S	ENE

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
NOVEMBER. 1	N	NNE	N	NNW	SW	SW	SW	C	C	C	C	C
2	SW	SW	SW	SW	SSW	SSW	SSW	C	C	C	C	C
3	SSW	WNW	NW	N	N	S	SSW	SSW	SSW	SSW	SSW	SSW
4	NW	N	N	N	NE	SE	SE	SE	SSE	S	C	C
5	NE	NNW	NW	W	SW	SW	SW	SW	SW	SW	SW	SW
6	NE	N	S	SE	SSE	C	C	C	C	C	C	C
7	ESE	E	NNE	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
8	SSW	NNW	N	N	W	NW	NW	WNW	C	C	C	C
9	NE	NNE	N	WSW	W	W	W	W	C	W	W	W
10	ENE	NNE	N	N	ENE	E	E	E	ENE	SSW	S	S
11	NNE	NNE	N	NNW	WSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
12	NNE	NE	NNE	NE	E	SSW	SSW	SSW	SSW	SSW	SSW	SSW
13	NE	NE	NNE	N	N	N	WNW	W	WSW	WSW	WSW	WSW
14	N	N	N	N	WSW	WSW	C	C	C	C	C	C
15	N	N	N	N	WSW	SW	SW	SW	C	C	C	C
16	WSW	N	NNE	N	N	NW	NW	C	NW	WNW	C	C
17	NW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	SSW	W	WNW	WNW
18	NNE	NNW	W	WSW	SW	SW	C	C	C	C	C	C
19	NNE	ESE	ENE	ENE	NE	NE	C	C	C	C	C	NE
20	NNE	NNE	NNE	NNE	NNE	C	C	NNE	NNE	NNE	C	C
21	NNE	N	N	NW	SW	SW	SW	C	SW	C	SW	SW
22	N	N	N	N	N	NNW	NNW	NW	WNW	WNW	C	WNW
23	NNW	NNW	NW	W	W	C	C	C	C	C	W	W
24	NE	NNE	NE	NNW	WSW	SSW	SSW	SSW	C	SSW	SSW	C
25	N	NE	NNE	NNE	N	N	SSW	S	S	S	S	S
26	WSW	W	WNW	W	WNW	W	W	WNW	WNW	WNW	WNW	WNW
27	NW	W	WNW	WNW	W	WNW	W	W	W	W	W	C
28	NW	NNW	ENE	ENE	NNW	NW	NW	NW	C	C	C	C
29	N	N	WSW	W	SSW	S	S	SSW	C	SSW	SSW	C
30	E	NE	NNE	NW	W	WSW	WSW	C	C	C	WSW	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	0.0	0.0	0.8	0.0	0.0	0.0	1.6	1.6	4.0	4.0	4.8	6.4	—
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	—
	3	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	2.4	1.6	0.8	2.4	—
	4	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	1.6	0.8	1.6	4.0	—
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	1.6	3.2	4.8	—
	6	2.4	1.6	1.6	0.8	1.6	0.8	1.6	2.4	10.5	12.1	10.5	5.6	—
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.6	4.0	4.8	4.0	—
	8	0.0	0.8	1.6	1.6	0.8	1.6	2.4	4.0	5.6	9.7	8.0	6.4	—
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.8	2.4	4.0	6.4	—
	10	0.0	0.0	0.0	0.0	0.0	0.0	0 8	1.6	0.8	1.6	3.2	5.6	—
	11	0.0	1.6	0.0	0.0	0.0	0.0	0.8	2.4	3.2	5.6	8.0	14.5	—
	12	4.8	5.6	4.0	1.6	0.8	0.0	1.6	4.8	3.2	3.2	4.8	4.8	—
	13	4.8	3.2	1.6	0.0	0.0	0.0	1.6	0.8	3.2	4.0	3.2	4 8	—
	14	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	1.6	1.6	3.2	4.0	—
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	4.8	12.1	—
	16	0.0	0.0	0.0	0.0	0.8	0.8	0.8	2.4	3.2	4.0	4.8	4.8	—
	17	0.0	0.0	0.0	0.0	0.0	0.8	3.2	3.2	4.8	5.6	6.4	8.0	—
	18	0.0	0.0	0.0	0.8	0.8	1.6	1.6	0.8	4.0	5.6	5.6	5.6	—
	19	0.8	0.8	0.8	0.8	1.6	3.2	4.8	3.2	3.2	7.2	8.0	10.5	—
	20	2.4	4.0	4.8	3.2	0.8	1.6	0.8	0.0	2.4	9.7	2.4	0.8	—
	21	0.0	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6	4.0	6.4	—
	22	1.6	0.8	0.8	1.6	0.8	0.8	0.8	1.6	1.6	2.4	4.0	6.4	—
	23	1.6	0.8	0.8	0.0	0.0	0.0	1.6	3.2	4.8	6.4	12.9	5.6	—
	24	3.2	1.6	1.6	0.0	0.0	1.6	4.0	4.8	5.6	7.2	5.6	8.9	—
	25	0.0	0.0	0.0	0.0	0.8	0.0	1.6	1.6	3.2	3.2	4.8	6.4	—
	26	0.8	0.0	0.0	0.0	0.0	1.6	3.2	4.0	6.4	8.0	8.9	12.9	—
	27	0.0	0.0	1.6	0.8	0.8	1.6	0.8	0.8	1.6	4.0	5.6	7.2	—
	28	0.0	0.0	0.0	0.0	0.0	0.0	3.2	5.6	6.4	5.6	5.6	5.6	—
	29	0.0	0.0	0.8	0.8	0.8	0.0	0.8	1.6	3.2	4.8	4.8	4.8	—
	30	0.0	0.0	0.8	0.0	0.0	0.0	0.8	1.6	2.4	3.2	4.8	4.8	—
														—
Hourly Means.		0.77	0.75	0.75	0.40	0.35	0.56	1.41	1.95	3.50	4.49	5.13	6.18	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	9.7	12.9	11.3	16.1	4.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0	3.35
	2	0.8	0.8	0.8	1.6	8.0	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.87
	3	1.6	3.2	4.0	4.8	2.4	8.0	3.2	1.6	0.8	2.4	0.8	0.8	1.77
	4	3.2	6.4	4.8	5.6	4.8	1.6	0.8	0.8	1.6	3.2	0.0	0.0	1.80
	5	7.2	11.3	7.2	4 8	3.2	1.6	2.4	5.6	4.8	1.6	0.8	0.8	2.64
	6	8.0	6.4	11.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.42
	7	4.0	4.0	1.6	5.6	3.2	1.6	0.8	0.8	0.8	1.6	1.6	0.8	1.93
	8	7.2	9.7	8.0	8.0	8.9	3.2	0.8	1.6	0.0	0.0	0.0	0.0	3.75
	9	12.9	8.9	7.2	4.8	1.6	1.6	2.4	0.8	0.0	0.8	0.8	0.8	2.61
	10	6.4	8.0	8.0	5.6	6.4	4.0	0.8	2.4	3.2	8.9	4.8	1.6	3.07
	11	15.3	16.9	13.7	6.4	6.4	9.7	4.8	4.0	3.2	1.6	1.6	2.4	5.09
	12	12.9	13.7	14.5	9.7	1.6	4.0	8.0	8.9	7.2	9.7	7.2	4.0	5.86
	13	10.5	12.9	12.1	10.5	6.4	1.6	3.2	4.8	4.8	1.6	1.6	0.8	4.08
	14	9.7	9.7	9.7	7.2	4.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.35
	15	10.5	11.3	12.1	8.9	4.0	3.2	1.6	0.8	0.0	0.0	0.0	0.0	3.15
	16	4.8	8.9	8.0	8.0	4.8	2.4	0.8	0.0	0.8	1.6	0.0	0.0	2.57
	17	15.3	9.7	8.9	6.4	5.6	3.2	1.6	0.8	1.6	0.8	1.6	0.8	3.68
	18	5.6	8.0	3.2	4.8	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.17
	19	4.8	2.4	5.6	6.4	5.6	1.6	0.0	0.0	0.0	0.0	0.0	2.4	3.07
	20	1.6	0.8	0.8	0.8	0.8	0.0	0.0	0.8	1.6	0.8	0.0	0.0	1.70
	21	10.5	11.3	9.7	8.9	7.2	0.8	0.8	0.0	0.8	0.0	0.8	0.8	2.78
	22	7.2	11.3	11.3	11.3	8.9	1.6	1.6	3.2	1.6	0.8	0.0	0.8	3.45
	23	1.6	1.6	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	1.6	2.4	2.20
	24	14.5	17.7	12.1	4.8	7.2	10.5	4.8	3.2	0.0	1.6	0.8	0.0	5.05
	25	12.1	12.9	15.3	8.9	4.8	8.0	10.5	5.6	2.4	2.4	3.2	1.6	4.55
	26	14.5	12.1	9.7	8.0	6.4	7.2	4 0	4.0	3.2	1.6	0.8	0.8	4,92
	27	6.4	6.4	4.8	4.8	4.8	2.4	3.2	0.8	1.6	1.6	0.8	0.0	2.60
	28	6.4	9.7	4.0	1.6	1.6	0.8	1.6	0.8	0.0	0.0	0.0	0.0	2.44
	29	5.6	7.2	6.4	6.4	12.9	6.4	6.4	1.6	0.0	0.8	0.8	0.0	3.20
	30	7.2	12.1	10.5	8.0	4.8	1.6	1.6	0.0	0.0	0.0	1.6	0.0	2.74
Hourly Means.		7.93	8.94	7.99	6.50	4.89	3.26	2.24	1.76	1.33	1.45	1.04	0.72	3.10

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER. 1	2	3	6	6	7	6	2	2	2	1	3	7	—
2	2	2	1	0	1	2	10	10	10	10	10	10	—
3	9	9	9	8	9	10	10	10	10	10	10	10	—
4	7	9	9	9	10	10	10	10	10	10	10	9	—
5	4	5	4	4	6	6	10	10	10	10	10	10	—
6	10	10	10	10	10	10	9	4	4	6	8	8	—
7	8	7	10	10	10	10	10	10	7	9	9	10	—
8	7	9	9	8	9	10	10	9	7	7	9	7	—
9	10	10	10	9	9	10	9	3	2	4	5	7	—
10	7	8	8	7	8	9	10	10	9	10	10	10	—
11	9	9	10	10	8	6	9	4	2	5	4	5	—
12	6	4	8	5	8	8	2	4	6	4	9	6	—
13	9	6	3	4	4	8	3	1	1	4	6	7	—
14	3	5	4	4	3	5	9	9	9	10	9	8	—
15	2	3	4	4	8	7	7	6	7	8	10	10	—
16	5	4	3	6	6	5	7	7	8	7	6	6	—
17	1	1	1	0	2	4	6	4	4	2	3	2	—
18	6	4	3	2	3	7	2	3	3	4	5	6	—
19	10	9	7	9	9	10	9	9	9	9	10	10	—
20	9	10	10	10	10	10	10	10	10	10	10	10	—
21	10	10	10	10	9	6	9	9	9	9	9	8	—
22	10	10	9	3	4	4	3	6	7	8	7	4	—
23	4	3	6	4	5	6	9	10	9	10	10	10	—
24	8	7	9	6	9	10	10	4	4	5	3	7	—
25	9	7	7	3	3	4	3	2	3	5	6	7	—
26	8	10	8	9	9	7	9	7	9	7	7	9	—
27	3	7	3	3	9	9	10	8	8	8	7	7	—
28	8	9	7	4	7	9	3	4	3	4	4	4	—
29	5	5	4	3	3	6	8	9	8	9	8	9	—
30	3	4	7	5	7	4	4	5	6	5	7	8	—
Hourly Means.	6.5	6.6	6.6	5.8	6.8	7.3	7.4	6.6	6.5	7.0	7.5	7.7	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER. 1	9	9	9	10	10	10	6	6	2	3	3	4	5.3
2	10	10	9	9	10	10	10	10	10	10	10	10	7.8
3	10	10	7	10	10	10	10	9	9	10	10	9	9.5
4	10	9	9	9	10	10	10	10	10	10	10	8	9.5
5	8	10	8	10	10	10	10	10	10	10	10	10	8.5
6	10	10	10	10	10	10	10	10	10	9	9	8	9.0
7	9	10	9	10	10	10	9	9	10	10	6	6	9.1
8	6	6	7	9	10	10	10	10	10	10	10	10	8.7
9	6	7	6	10	5	3	5	6	8	6	6	5	6.7
10	9	9	9	9	10	10	9	8	9	10	9	9	9.0
11	8	7	7	10	10	10	8	10	10	9	10	8	7.8
12	2	1	2	5	5	8	7	9	9	6	6	7	5.7
13	6	5	7	6	5	8	6	6	7	7	7	3	5.4
14	8	4	3	4	5	6	4	3	6	9	9	6	6.0
15	9	7	6	9	7	9	6	4	2	3	2	1	5.9
16	7	6	6	6	8	8	6	4	2	2	1	2	5.3
17	8	9	10	10	10	10	7	10	9	8	8	8	5.7
18	8	10	9	10	10	8	9	10	6	3	2	7	5.8
19	10	9	10	10	10	9	5	7	9	10	8	6	8.9
20	10	10	10	10	9	10	7	4	4	7	6	3	8.7
21	9	6	7	10	10	10	10	10	10	10	10	10	9.2
22	7	7	6	6	6	6	10	5	7	6	9	8	6.6
23	10	8	8	8	9	8	8	7	9	4	7	9	7.5
24	6	7	10	10	10	10	10	10	10	10	10	10	8.4
25	4	3	4	6	8	10	10	10	10	10	9	10	6.4
26	6	7	9	9	9	9	10	9	8	6	8	7	8.2
27	9	9	9	7	7	6	9	9	9	10	9	9	7.7
28	7	7	10	7	8	9	9	3	3	9	8	9	6.5
29	9	10	10	10	10	10	10	10	9	9	10	6	7.9
30	7	8	10	10	9	9	9	7	8	9	7	6	6.8
Hourly Means.	7.9	7.7	7.9	8.6	8.7	8.9	8.3	7.8	7.8	7.8	7.6	7.1	7.44

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

NOVEMBER. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	23.8	16.7	13.0	9.7	9.7	16.2	11.9	7.6	4.3	3.2	3.2	4.3	—
2	9.2	8.1	7.0	7.0	5.9	12.4	10.8	5.9	7.0	5.9	2.7	5.9	—
3	12.4	10.3	9.7	12.4	8.1	13.0	—	—	4.3	3.8	4.9	5.4	—
4	9.7	9.2	7.6	8.1	8.6	16.2	—	11.3	11.3	6.5	5.9	4.9	—
5	10.3	9.7	7.6	9.2	11.9	12.4	8.6	8.6	4.9	3.8	1.1	3.8	—
6	12.4	9.2	8.6	7.6	7.0	8.1	—	9.2	2.2	2.7	4.9	3.8	—
7	18.4	17.3	13.5	14.6	13.5	18.9	16.7	—	—	—	2.2	4.9	—
8	8.1	7.6	8.1	5.9	4.9	8.1	11.9	8.1	3.8	1.6	1.6	1.6	—
9	25.9	18.4	16.2	11.3	17.3	18.9	16.7	8.6	3.2	2.7	2.2	4.9	—
10	9.7	10.8	11.3	8.1	6.5	13.0	14.6	7.6	4.3	3.2	— 1.6	4.3	—
11	8.1	7.6	9.7	8.1	6.5	12.4	9.2	2.7	2.7	2.2	4.3	2.7	—
12	7.6	7.0	7.6	8.1	8.6	13.0	16.7	5.4	5.4	1.6	1.1	— 0.5	—
13	5.9	6.5	7.0	7.0	7.6	8.6	9.2	2.2	4.3	2.7	3.2	2.2	—
14	11.9	13.0	14.6	11.3	8.1	11.9	15.7	8.1	4.9	1.6	— 1.6	— 0.5	—
15	17.8	18.4	13.5	17.8	11.9	15.7	18.9	12.4	4.3	1.6	3.8	8.6	—
16	21.6	20.5	13.0	15.1	7.0	15.1	14.6	4.9	2.2	1.1	0.5	2.2	—
17	10.8	12.4	9.7	8.6	9.7	9.7	7.0	2.2	1.6	— 1.1	2.2	2.2	—
18	9.2	9.7	9.2	10.3	10.8	11.3	13.0	15.1	3.8	3.2	2.7	2.2	—
19	11.3	9.7	9.2	10.8	9.7	11.3	11.3	4.9	6.5	1.1	PN	PN	—
20	14.0	PN	PN	PN	PN	— 7.0	27.0	19.4	7.6	18.4	PN	PN	—
21	24.8	15.1	15.7	18.9	P	30.8	29.7	15.7	10.8	7.6	7.0	6.5	—
22	6.5	10.3	11.3	9.7	9.7	17.8	19.4	7.6	3.2	4.9	1.6	4.9	—
23	17.3	14.0	15.1	14.0	18.9	27.0	13.0	8.6	5.4	5.9	— 1.1	P	—
24	10.3	14.6	15.7	12.4	18.9	13.5	18.4	4.9	2.2	2.2	4.3	3.8	—
25	14.6	13.0	14.6	11.3	17.3	22.1	25.9	4.9	4.3	2.7	2.7	5.4	—
26	11.9	10.3	16.2	21.1	13.0	10.3	8.6	6.5	6.5	4.9	3.2	2.7	—
27	13.5	11.3	11.3	9.7	11.9	14.6	27.0	26.5	18.9	9.7	9.2	8.1	—
28	13.0	12.4	12.4	13.0	17.8	21.6	19.4	9.2	5.4	2.2	4.9	3.2	—
29	12.4	11.9	9.7	7.0	6.5	8.1	19.4	10.3	4.3	4.9	4.3	4.3	—
30	11.9	13.0	10.8	7.6	10.3	13.5	16.7	9.7	4.9	2.2	2.7	3.2	—
Hourly Means.	13.1	12.0	11.3	10.9	10.6	14.0	16.0	8.9	5.3	3.9	2.9	3.9	—

NOVEMBER. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	2.2	2.7	13.0	P	P	N	16.2	11.9	11.9	13.5	11.3	10.3	10.3
2	5.4	4.9	1.6	10.8	P	P	7.0	14.6	18.4	15.7	13.5	13.0	8.8
3	4.9	4.9	6.5	8.1	25.9	26.5	10.8	13.0	10.3	14.0	10.8	9.2	10.4
4	5.4	4.3	4.3	8.1	19.4	9.2	20.5	15.7	15.7	9.7	10.8	14.0	10.3
5	3.2	— 5.9	20.5	— 0.5	2.7	5.9	4.3	6.5	6.5	10.3	13.0	13.0	7.1
6	4.3	4.3	N	N	N	N	N	5.4	17.3	15.7	16.2	11.9	8.4
7	4.3	9.2	2.7	3.2	8.1	8.6	11.3	10.3	8.1	—	—	9.7	10.3
8	1.1	—18.9	PN	P	N	PN	PN	PN	16.2	7.6	13.5	16.7	6.0
9	3.8	N	PN	N	7.6	0.0	9.2	15.1	15.1	15.7	11.9	8.6	11.7
10	2.2	—12.4	2.7	N	13.5	4.9	8.6	10.8	1.6	0.0	13.0	— 2.7	5.8
11	2.7	2.7	8.1	29.7	— 2.7	24.3	—10.8	0.0	8.1	8.1	8.6	8.1	6.8
12	2.2	2.7	3.2	2.7	4.3	6.5	4.9	3.8	4.3	4.9	6.5	6.5	5.6
13	5.4	—12.4	8.1	3.8	9.7	14.0	22.7	12.4	13.0	11.3	11.9	15.1	7.6
14	3.2	3.8	4.9	4.3	29.7	29.2	14.0	12.4	21.6	18.4	16.7	14.6	11.3
15	4.3	3.8	6.5	13.5	11.3	4.9	8.6	7.0	17.3	17.8	16.2	16.2	11.3
16	2.7	1.1	2.7	3.8	5.4	3.8	N	P	14.6	9.7	14.6	16.2	8.7
17	2.7	N	P	N	28.1	16.7	8.6	15.1	10.8	11.3	9.7	9.7	8.9
18	9.2	N	P	N	7.6	10.8	20.0	18.4	12.4	11.9	9.2	10.8	10.0
19	PN	8.6	5.4	6.5	6.5	9.2	17.8	18.9	18.9	16.2	12.4	15.7	10.6
20	PN	P	17.3	32.4	12.4	18.9	16.2	23.8	P	15.7	22.7	P	17.1
21	6.5	6.5	10.8	14.6	N	8.6	30.2	— 2.2	— 3.8	7.6	10.3	9.7	12.8
22	4.9	5.9	6.5	8.6	8.6	17.3	10.8	10.8	11.3	13.5	14.0	14.0	9.7
23	13.0	7.0	4.9	8.1	8.6	8.6	24.3	9.2	18.9	21.6	27.0	17.3	13.3
24	8.1	12.4	PN	PN	PN	PN	PN	PN	23.2	11.3	14.0	14.6	11.4
25	4.3	5.4	5.4	5.9	23.8	PN	PN	PN	PN	7.0	11.3	11.9	10.7
26	2.2	3.8	4.9	5.9	8.1	2.7	10.3	10.3	9.7	11.3	15.7	15.7	9.0
27	6.5	5.4	6.5	8.6	9.2	9.2	13.0	13.0	13.0	11.9	13.5	20.0	12.6
28	3.8	3.2	N	5.4	9.2	N	14.6	8.6	11.9	16.2	13.5	11.9	10.6
29	5.4	5.4	10.8	13.5	P	N	N	15.7	11.9	13.5	16.2	13.5	10.0
30	3.2	7.0	N	P	20.5	8.6	13.0	18.4	20.0	20.5	21.1	16.2	11.6
Hourly Means.	4.5	2.5	7.2	9.4	12.1	11.3	12.8	11.5	12.8	12.5	13.8	12.5	9.80

BAROMETRIC PRESSURE.

BAROMETER AT 0°C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

DECEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	8.88	8.21	7.97	8.18	8.60	8.91	9.54	10.19	10.38	10.27	9.87	9.39	—
2	8.88	8.40	8.11	8.12	8.57	9.18	9.45	9.71	9.66	9.43	9.03	8.62	—
3	9.54	9.37	9.12	8.77	8.88	9.15	9.69	9.81	9.72	9.37	9.00	8.54	—
4	8.97	8.57	8.23	8.29	8.96	9.12	9.54	9.99	10.15	10.18	9.53	9.14	—
5	9.22	8.82	8.38	8.44	9.06	9.60	9.90	10.25	10.19	9.84	9.34	8.91	—
6	9.59	9.56	9.08	8.92	9.33	9.96	10.51	10.78	10.99	10,85	10.68	10.54	—
7	9.86	9.30	9.06	9.07	9.51	9.96	10.43	10.70	10.74	10.12	9.56	8.97	—
8	8.81	8.37	8.37	7.98	8.43	9.25	9.86	9.95	9.93	9.67	9.02	8.25	—
9	7.84	7.31	6.92	6.91	6.98	7.60	8.03	8.25	8.37	8.51	8.11	7.61	—
10	7.75	7.20	6.85	6.90	7.17	7.85	8.23	8.82	8.90	8.82	8.66	8.20	—
11	7.91	7.43	7.30	7.26	7.63	8.18	8.93	9.16	9.31	9.09	8.74	8.04	—
12	7.87	7.30	7.08	7.21	7.37	7.95	8.38	8.73	9.07	9.12	8.61	8.02	—
13	8.60	8.17	7.90	7.71	8.26	8.57	9.22	9.44	9.60	9.55	9.17	8.70	—
14	8.77	8.45	8.01	7.75	7.92	8.20	8.33	8.80	9.05	8.84	8.65	8.32	—
15	7.92	7.83	7.62	7.27	7.58	7.95	8.27	8.55	8.62	8.79	8.63	8.12	—
16	7.76	7.22	6.91	6.82	7.08	7.42	8.41	8.91	9.24	9.35	9.12	8.62	—
17	8.41	7.97	7.82	7.39	7.65	8.16	8.48	8.87	9.15	9.12	8.59	8.45	—
18	8.65	8.05	7.71	7.52	7.82	8.14	8.54	8.94	8.93	8.81	8.57	8.05	—
19	7.82	7.41	7.12	6.94	7.15	7.36	7.87	8.16	8.11	7.63	6.80	6.12	—
20	6.75	6.45	5.85	5.76	5.62	5.99	6.45	6.92	7.10	6.84	6.44	5.93	—
21	6.75	6.01	5.82	5.84	6.09	6.36	7.01	7.32	7.81	7.90	7.65	7.04	—
22	7.76	7.39	7.15	7.17	7.17	7.44	7.46	7.54	7.85	7.50	6.91	6.62	—
23	7.77	7.32	6.97	6.93	7.30	7.96	8.40	8.47	8.75	8.45	8.23	7.70	—
24	7.76	7.37	7.09	6.85	7.07	7.55	7.88	8.32	8.60	8.66	8.14	7.24	—
25	8.71	7.91	7.27	7.22	7.49	8.12	8.43	8.70	8.65	8.51	7.99	7.66	—
26	8.61	8.26	7.86	7.22	7.66	8.13	8.98	9.56	9.78	9.68	9.27	9.37	—
27	9.01	8.73	8.32	8.23	8.35	8.85	9.21	9.56	9.76	9.32	9.00	8.31	—
28	8.63	8.10	7.63	7.55	7.71	7.97	8.27	8.91	9.12	9.02	8.76	8.34	—
29	7.85	7.36	7.02	6.64	6.81	7.33	8.01	8.36	8.82	9.09	8.77	8.45	—
30	8.83	8.33	8.08	8.03	8.23	8.73	9.43	9.99	9.98	10.05	9.32	9.15	—
31	9.38	9.00	8.86	8.63	8.99	9.19	10.11	10.53	10.60	10.34	9.80	9.44	—
Hourly Means.	8.41	7.97	7.66	7.53	7.82	8.26	8.75	9.10	9.26	9.12	8.71	8.25	—

DECEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.79	8.29	7.90	7.84	8.38	9.14	9.24	9.39	10.06	10.43	10.24	9.65	9.16
2	8.55	8.18	7.47	7.47	8.03	8.84	9.74	10.13	10.65	10.59	10.41	10.03	9.05
3	7.71	7.32	6.91	6.81	7.30	8.27	9.60	9.75	9.48	9.66	9.89	9.60	8.89
4	8.75	8.14	7.49	7.33	7.80	8.30	8.75	9.19	9.32	9.56	9.38	9.20	8.91
5	8.48	8.18	7.60	7.73	8.14	8.63	9.28	9.72	10.54	10.72	10.44	9.98	9.22
6	9.83	9.33	8.81	8.81	9.22	9.88	10.52	10.74	10.67	10.79	10.56	9.95	10.00
7	8.48	7.91	7.43	8.23	8.19	8.79	9.07	9.29	9.33	9.31	9.66	9.25	9.26
8	7.41	6.59	6.61	5.81	6.31	6.91	8.03	8.39	8.86	9.06	8.95	8.42	8.30
9	7.07	6.53	6.14	6.05	6.50	7.13	7.54	7.99	8.14	8.16	8.11	7.77	7.48
10	7.40	6.80	6.34	6.30	6.66	7.18	7.70	8.62	8.76	8.96	8.80	8.52	7.81
11	7.37	6.44	6.34	6.31	6.59	7.47	8.14	8.71	9.03	8.96	8.76	8.66	7.99
12	7.55	7.13	6.71	6.62	7.14	8.02	8.59	9.14	9.44	9.40	9.43	9.14	8.13
13	7.56	6.83	6.53	6.33	6.42	7.49	8.48	8.76	8.92	9.11	9.33	9.31	8.33
14	8.02	7.38	6.91	6.96	7.00	7.21	7.41	7.79	7.96	8.17	8.18	8.12	8.01
15	7.45	6.81	5.99	5.81	6.29	7.48	7.58	7.79	7.94	8.06	8.41	8.19	7.71
16	7.48	7.09	6.14	6.31	6.46	7.55	8.04	8.34	8.87	9.15	9.11	8.76	7.92
17	7.63	7.05	6.36	6.37	6.47	6.67	7.80	8.41	9.05	9.19	9.21	8.97	8.05
18	6.94	6.34	5.32	5.47	5.67	6.67	7.33	7.98	8.61	8.65	8.56	8.35	7.73
19	5.49	4.92	4.36	4.38	5.23	5.58	6.09	6.14	6.95	6.96	6.86	6.91	6.60
20	5.64	4.95	4.77	5.35	5.86	6.48	6.70	6.87	7.40	7.77	7.62	7.22	6.36
21	6.35	5.54	5.29	5.19	5.62	6.43	7.17	7.68	8.05	8.14	8.31	8.15	6.81
22	6.24	5.84	5.44	5.39	6.41	7.02	7.93	8.42	8.66	8.79	8.85	8.36	7.30
23	7.10	6.46	5.87	5.95	6.50	7.22	8.04	8.34	8.52	8.80	8.77	8.29	7.67
24	6.56	5.99	6.21	6.35	6.94	7.70	7.75	8.41	8.51	8.51	8.71	8.67	7.62
25	7.18	6.48	6.03	6.84	7.48	7.80	8.54	9.05	9.73	10.15	9.89	9.45	8.14
26	8.59	7.95	7.44	7.13	7.68	8.40	9.17	9.78	9.90	10.19	10.10	9.71	8.77
27	7.84	7.19	7.51	7.20	6.96	7.84	8.02	8.49	8.85	9.01	9.02	8.93	8.48
28	7.14	6.44	5.83	6.00	6.88	7.69	8.22	8.67	9.01	9.10	8.93	8.25	8.01
29	8.26	7.68	7.38	7.51	7.80	8.38	8.30	8.68	9.24	9.52	9.26	8.83	8.14
30	8.90	8.22	7.79	7.47	7.65	8.25	9.01	9.55	9.81	9.83	9.84	9.86	8.93
31	8.80	8.03	7.33	7.12	7.30	8.04	8.58	8.92	9.12	9.68	9.50	9.24	9.02
Hourly Means.	7.63	7.03	6.59	6.59	7.00	7.69	8.27	8.68	9.01	9.17	9.13	8.83	8.19

STANDARD THERMOMETER.

DECEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	73.6	73.5	73.1	72.9	72.5	72.2	73.5	76.5	80.0	83.0	83.5	83.2	—
2	74.4	74.0	73.8	73.8	73.8	73.7	73.5	75.0	77.8	81.0	84.0	85.0	—
3	75.2	74.8	74.6	74.4	74.0	74.1	75.0	76.6	81.0	81.2	82.5	85.0	—
4	72.8	72.4	72.4	72.4	72.2	72.6	73.6	74.7	77.1	79.8	82.2	82.2	—
5	72.7	72.5	72.1	72.0	72.2	72.2	73.2	75.0	78.0	80.0	81.5	83.0	—
6	75.0	74.5	74.2	74.0	74.0	74.0	74.9	76.8	78.5	80.2	80.7	80.2	—
7	74.5	74.2	74.0	74.1	74.0	74.0	74.6	76.7	80.6	83.0	85.2	84.5	—
8	75.2	74.6	74.4	74.2	74.4	74.2	75.5	78.1	80.0	81.5	84.5	85.4	—
9	74.9	74.9	74.2	73.9	73.9	73.6	74.6	76.8	78.6	80.1	82.8	83.2	—
10	74.8	74.5	74.4	73.9	73.5	73.3	73.9	74.8	76.2	77.9	80.3	82.1	—
11	74.9	74.3	74.3	74.3	73.9	73.6	74.4	76.0	78.7	81.2	84.3	85.8	—
12	74.2	74.0	73.2	72.5	72.1	72.1	72.7	76.6	79.1	83.0	82.1	84.0	—
13	74.4	73.9	74.0	73.8	73.8	74.0	75.0	77.4	80.0	82.2	85.0	86.0	—
14	75.0	74.6	74.3	74.0	73.3	73.3	74.2	76.6	80.6	82.6	83.0	84.1	—
15	73.1	73.0	72.7	72.5	72.1	72.0	73.0	75.0	78.9	82.4	84.4	85.0	—
16	75.0	74.6	74.2	74.0	73.7	73.5	75.1	78.4	81.9	83.9	85.1	86.1	—
17	75.3	75.1	75.0	74.5	74.0	73.7	74.5	76.7	79.0	81.6	82.6	81.7	—
18	76.7	76.3	76.1	75.7	75.3	75.1	76.3	79.0	81.0	82.6	83.5	82.0	—
19	76.0	75.8	75.8	75.0	74.8	75.0	75.8	78.6	81.1	83.0	85.2	86.6	—
20	75.2	75.2	75.3	74.8	74.6	74.8	75.4	77.3	79.0	81.7	84.0	84.8	—
21	75.6	75.1	74.8	74.8	74.5	74.5	75.2	77.0	79.0	80.0	82.1	83.9	—
22	76.4	76.2	75.8	75.4	75.2	75.0	75.7	77.1	79.1	82.0	83.5	84.7	—
23	74.7	74.6	74.2	74.1	73.8	73.8	75.0	77.0	79.0	81.5	84.1	85.0	—
24	75.3	75.3	75.3	75.0	74.4	74.2	76.0	78.2	81.3	83.3	84.2	84.0	—
25	75.5	75.2	74.9	74.5	74.2	74.0	75.0	77.7	80.5	82.1	84.4	86.5	—
26	75.7	75.5	75.1	74.8	74.1	73.9	75.1	78.7	81.0	82.6	83.3	76.4	—
27	74.2	73.2	73.0	72.8	73.0	73.2	74.0	75.9	78.1	80.1	82.0	83.3	—
28	75.0	73.8	72.9	72.7	72.7	72.9	73.2	74.2	76.6	79.1	79.3	80.1	—
29	74.0	74.0	73.7	73.3	73.2	73.2	74.0	76.2	77.6	75.0	75.2	77.3	—
30	72.1	72.2	72.1	71.9	71.7	72.5	73.1	74.8	75.8	77.7	80.3	82.1	—
31	74.1	73.9	73.6	73.2	73.1	73.6	74.6	75.6	77.3	79.0	82.9	85.0	—
Hourly Means.	74.70	74.38	74.11	73.85	73.61	73.61	74.50	76.61	79.11	81.11	82.83	83.49	—

DECEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	79.8	80.7	80.9	79.0	77.3	76.1	75.4	75.2	75.2	74.9	74.4	74.6	76.71
2	83.2	82.8	85.0	84.0	81.0	80.0	78.4	77.0	76.2	76.0	75.6	75.2	78.09
3	85.5	85.7	83.5	82.6	81.8	78.1	75.0	73.1	72.8	72.7	72.9	73.0	77.71
4	81.6	81.0	80.8	80.6	80.1	79.5	78.0	77.0	73.1	73.1	72.7	72.5	76.43
5	83.1	82.6	82.2	81.8	80.6	80.0	79.2	78.8	78.1	77.5	76.5	75.5	77.51
6	79.7	79.0	79.2	79.3	79.0	78.6	77.9	77.1	76.7	76.0	75.3	74.7	77.06
7	85.1	85.3	84.0	80.0	77.9	77.7	77.1	76.9	76.3	76.1	75.9	75.4	78.21
8	84.5	84.0	78.0	78.1	79.7	79.0	7.90	78.0	76.1	75.8	75.4	75.0	78.11
9	83.0	83.3	82.4	83.0	81.7	81.0	78.1	77.1	76.6	76.0	75.5	75.1	78.10
10	81.2	81.0	81.0	81.1	80.6	79.6	78.6	77.8	77.2	76.8	76.0	75.3	77.33
11	86.6	85.5	84.3	84.2	83.0	82.6	79.5	78.0	77.0	76.4	75.5	75.0	78.89
12	86.6	84.0	84.2	83.7	83.4	81.5	79.3	77.5	76.4	75.5	75.0	74.7	78.23
13	85.7	85.3	85.0	84.1	83.0	80.2	77.7	77.1	76.5	75.8	75.8	75.6	78.80
14	81.0	79.3	78.2	77.5	76.2	75.2	74.7	74.7	74.6	74.2	74.0	73.5	76.61
15	85.8	85.8	85.0	83.4	83.1	81.0	79.0	77.7	77.0	76.4	76.0	75.8	78.34
16	88.2	85.2	83.0	82.2	82.8	76.4	74.9	74.4	74.9	75.0	75.0	75.0	78.44
17	83.0	84.0	84.0	82.5	81.8	81.0	79.8	79.0	78.0	77.3	77.1	77.0	78.68
18	82.5	83.1	82.7	83.0	81.5	80.7	80.0	78.8	77.5	77.0	76.7	76.0	79.13
19	86.5	86.0	85.8	83.2	80.5	78.0	77.5	77.1	76.4	76.1	75.6	75.5	79.20
20	83.1	83.4	81.0	80.6	78.8	77.5	77.0	76.8	76.1	76.4	76.1	76.1	78.13
21	84.7	85.0	84.8	83.2	83.0	81.4	80.2	79.1	78.4	77.6	77.2	77.0	79.09
22	86.3	84.7	84.7	84.4	82.6	78.0	76.0	75.4	75.2	74.8	75.0	75.0	78.68
23	85.0	83.6	83.3	82.1	81.8	79.1	77.7	77.0	76.9	76.5	76.3	75.8	78.41
24	85.0	85.2	80.0	77.7	77.2	77.0	76.4	76.0	75.7	75.5	75.1	75.5	78.03
25	87.4	85.3	84.8	79.1	78.7	78.3	77.9	77.5	77.2	76.9	76.2	76.0	78.74
26	77.0	77.8	79.0	79.7	79.2	78.8	78.1	77.0	76.2	75.5	75.7	75.2	77.31
27	85.6	82.1	76.0	75.5	75.7	76.2	76.0	76.0	75.8	75.4	75.2	75.2	76.56
28	81.2	81.6	82.5	81.2	78.0	77.0	76.2	75.7	75.4	74.5	74.4	74.0	76.43
29	77.0	78.6	77.5	75.9	75.2	74.0	73.4	73.1	73.1	72.9	72.5	72.1	74.67
30	77.6	79.3	79.3	77.1	78.4	78.2	77.2	77.0	76.5	76.1	75.1	74.5	75.94
31	86.0	83.0	79.6	83.0	82.2	80.0	78.0	77.2	76.6	76.2	75.9	75.2	77.87
Hourly Means.	83.50	83.01	81.99	81.06	80.19	78.76	77.52	76.78	76.12	75.71	75.34	75.03	77.79

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

DECEMBER. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	921	929	937	937	937	946	921	857	766	725	741	740	—
2	930	938	947	947	947	938	938	930	813	748	715	697	—
3	947	947	947	939	947	938	930	882	789	783	737	670	—
4	955	973	973	964	964	964	965	956	883	787	694	729	—
5	919	928	936	946	946	955	937	905	829	796	756	718	—
6	922	930	939	921	912	930	922	850	799	744	753	781	—
7	939	947	956	956	947	938	939	883	768	718	686	709	—
8	956	965	965	965	973	965	931	861	803	784	688	691	—
9	947	939	947	956	956	965	965	875	807	781	670	705	—
10	913	921	921	938	947	956	947	913	890	852	767	722	—
11	914	922	930	930	930	938	930	906	815	719	591	573	—
12	861	869	868	893	901	892	894	818	735	672	675	648	—
13	888	903	912	921	929	930	913	812	751	721	632	629	—
14	947	930	921	930	938	938	930	891	797	731	739	728	—
15	946	955	964	955	955	964	946	905	808	716	669	652	—
16	939	939	939	938	929	929	914	830	771	700	633	637	—
17	957	956	956	973	965	965	965	932	886	777	766	800	—
18	966	957	966	966	966	956	966	869	797	758	700	793	—
19	915	923	923	956	956	947	931	822	762	745	678	664	—
20	947	939	939	947	947	947	948	925	854	785	735	703	—
21	966	966	965	956	930	922	889	851	816	766	729	700	—
22	915	899	906	905	880	880	915	883	802	758	692	670	—
23	939	939	947	938	947	947	939	883	854	791	668	639	—
24	939	947	947	947	947	947	923	837	755	712	749	755	—
25	931	930	913	913	921	947	905	860	804	758	708	651	—
26	923	931	939	939	930	929	897	815	761	738	712	841	—
27	904	911	929	946	946	937	921	873	830	767	700	692	—
28	905	938	937	955	964	955	955	921	916	778	756	773	—
29	912	904	921	929	911	894	869	857	789	888	922	843	—
30	936	936	946	955	955	919	937	913	864	781	715	687	—
31	870	870	887	886	920	921	913	881	859	823	746	671	—
Hourly Means.	928	932	936	940	940	939	929	877	812	761	714	707	—

DECEMBER. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	773	797	797	808	851	881	905	905	922	930	947	939	867
2	739	774	638	727	732	750	829	866	906	923	939	947	844
3	691	699	734	787	728	837	922	929	955	946	955	955	858
4	749	776	755	775	796	802	852	851	955	946	964	955	874
5	732	737	750	771	797	803	832	862	861	835	874	898	847
6	795	854	854	839	823	862	892	932	924	915	914	922	872
7	698	679	674	871	884	916	940	916	940	940	940	947	864
8	723	735	861	908	879	918	918	933	931	915	931	939	881
9	711	698	695	711	757	761	845	867	883	890	898	897	839
10	734	769	755	733	753	780	831	868	859	859	890	923	852
11	577	629	636	630	657	649	801	829	763	785	806	822	778
12	602	667	655	706	705	762	779	813	834	864	880	888	787
13	609	627	665	715	732	834	875	866	857	872	889	905	808
14	820	863	853	867	899	922	913	913	947	947	938	947	885
15	655	648	690	712	739	782	808	867	891	906	923	923	832
16	561	697	839	750	731	906	904	947	939	947	956	965	843
17	795	749	721	759	807	850	894	902	933	949	941	949	881
18	745	718	731	718	770	812	841	862	900	924	932	923	856
19	702	700	693	740	768	869	900	875	866	899	915	940	837
20	746	712	820	819	838	892	924	940	948	948	966	957	880
21	709	703	690	739	732	762	796	823	853	860	867	875	828
22	682	709	676	681	709	820	864	880	880	913	922	922	823
23	691	748	748	779	785	870	852	883	899	915	923	940	853
24	717	717	802	836	892	907	916	932	906	923	948	940	868
25	630	697	696	831	837	829	876	883	867	866	899	915	836
26	858	876	847	817	771	792	836	875	890	905	880	855	857
27	622	750	906	939	889	856	841	832	864	880	880	897	855
28	762	763	710	748	798	804	825	848	864	897	913	921	859
29	858	783	797	906	872	861	894	929	920	920	919	928	884
30	859	839	801	891	814	814	851	859	882	873	855	863	864
31	662	738	848	710	721	729	797	843	857	857	864	888	823
Hourly Means.	716	737	753	781	789	827	863	882	893	902	912	919	850

DIRECTION OF THE WIND.

DECEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	C	C	C	WSW	WSW	WSW	W	NW	NNW
2	C	C	C	C	C	SW	SW	SW	W	WNW	WNW	W
3	C	C	C	C	SSE	SSE	C	SSE	ESE	S	ESE	ENE
4	C	SSE	C	C	C	C	SSE	C	SSE	SSE	NE	NE
5	C	C	C	C	C	C	SSE	SSE	S	WSW	NW	N
6	C	C	C	C	C	C	NNW	NNW	NW	NW	NE	NE
7	C	N	N	C	C	C	N	N	W	NW	WNW	NE
8	C	C	C	C	C	SSW	SSW	SSW	SSW	NW	NE	NNW
9	C	C	SE	SE	SE	SE	SSE	S	SW	SW	E	ENE
10	C	SE	C	C	C	C	C	C	ESE	E	E	E
11	C	C	C	C	C	C	E	SSW	SSW	SSW	NNW	WSW
12	C	C	C	C	C	C	SW	WSW	NW	S	NE	N
13	C	C	C	C	C	S	S	SSW	WNW	N	NW	NW
14	C	C	C	C	C	C	S	S	S	E	ENE	NE
15	C	C	C	C	C	C	C	SSW	SSW	ENE	NE	NE
16	C	C	C	C	C	S	S	S	S	ESE	ENE	NE
17	NW	ENE	C	C	C	C	C	ENE	ENE	ENE	NE	E
18	C	C	C	C	C	C	N	WNW	W	NW	N	N
19	WSW	WNW	WNW	WNW	WNW	C	WNW	WNW	NW	NW	NW	NW
20	C	C	C	C	C	C	S	S	WNW	NW	WNW	NNW
21	NW	NW	NW	W	W	W	W	W	W	NW	WNW	NW
22	C	C	WSW	WSW	WSW	WSW	W	W	W	WSW	NW	NE
23	SSW	SSW	C	C	C	C	SSW	SSW	SSW	SSW	NW	NE
24	C	C	C	SSW	SSW	SSW	SSW	SSW	NW	N	N	NNE
25	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WSW	WNW	W	WNW
26	WSW	W	W	WSW	WSW	WSW	WNW	WNW	WNW	NW	NNW	WNW
27	WNW	WNW	WNW	WNW	WNW	C	WNW	WNW	W	WNW	NNW	WNW
28	NW	WNW	NW	NW	NW	NW	NW	NW	WNW	NW	WNW	NW
29	NW	NW	C	NW	NW	NW	WNW	NW	WNW	WNW	NW	WNW
30	C	WNW	C	C	WNW	WNW	WNW	WNW	W	NW	NW	WNW
31	W	W	C	C	C	C	W	W	W	NW	WNW	WNW

DECEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NW	WNW	WSW	WSW	SW	SW	SW	C	C	C	SW	SW
2	SW	SSW	WSW	W	SSW	SSW	SSW	SSE	SSE	C	C	C
3	NE	NNE	NNE	NNE	N	W	SSW	S	S	SSE	SSE	SSE
4	NNE	N	NNE	N	N	NNE	N	SSW	S	SSW	SSE	C
5	N	N	N	N	N	NNE	C	C	NNW	NNW	NNW	C
6	NE	N	NNE	N	N	C	C	N	C	C	C	C
7	NNE	NNE	NNE	WSW	WSW	C	WSW	SSW	SSW	SSW	SSW	SSW
8	N	NNE	WSW	WNW	WNW	WNW	WNW	SW	SSE	SE	SE	C
9	N	NNE	NE	ENE	E	NE	SE	SE	SE	SE	SE	SE
10	E	E	E	E	E	E	E	C	E	C	E	C
11	WNW	NNE	N	NNE	NNE	NNW	SW	SW	SW	SW	SW	SW
12	N	N	N	N	WNW	C	SSW	S	S	S	C	S
13	NNE	NNE	N	NE	NNE	SW	SSW	S	S	SE	SE	C
14	NNE	NE	NE	NNE	SSW	SSW	SSW	SSW	SSW	C	C	C
15	NE	NNE	NNE	N	NNE	SSW	S	S	C	C	C	C
16	E	NE	N	ENE	ENE	SSW	NNW	NNW	NW	C	NW	C
17	N	NNE	NNE	N	N	C	C	C	C	C	C	C
18	N	N	N	N	N	N	N	NW	NW	WNW	WSW	WSW
19	NNE	NNE	NNE	N	SW	SW	SW	SW	S	S	S	S
20	N	N	SW	NW	NNW	NNW	NNW	NNW	C	C	C	C
21	WSW	WSW	NNW	NW	W	WSW	WSW	WSW	WSW	WSW	WSW	C
22	NNE	NNE	N	NW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW
23	NE	N	NNE	NNE	N	SW	SSW	SSW	C	C	C	C
24	N	NNW	WSW	W	WNW	WNW	WNW	C	WNW	WNW	C	C
25	WNW	NNW	NW	WNW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	C
26	NW	NW	NW	NW	NW	NW	NW	W	W	W	W	W
27	NW	NNW	NW	NW	W	WNW	WNW	W	W	W	W	WNW
28	NNW	NNW	WNW	NNW	SW	NW	NW	C	C	C	C	C
29	W	NW	NW	WNW	WSW	WNW	WNW	C	C	C	C	C
30	NW	WNW	NW	WNW	NW	NW	NW	WNW	WNW	WNW	W	W
31	WNW	WSW	WSW	W	WNW	WSW	W	W	W	W	W	W

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

DECEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8	5.6	4.8	7.2	—
2	0.0	0.0	0.0	0.0	0.0	1.6	0.8	2.4	3.2	5.6	7.2	4.8	—
3	0.0	0.0	0.0	0.0	1.6	1.6	0.0	2.4	6.4	3.2	6.4	6.4	—
4	0.0	1.6	0.0	0.0	0.0	0.0	1.6	0.0	0.8	3.2	10.5	9.7	—
5	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	3.2	5.6	10.5	—
6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	2.4	3.2	5.6	4.8	—
7	0.0	0.8	0.8	0.0	0.0	0.0	1.6	2.4	4.8	5.6	5.6	9.7	—
8	0.0	0.0	0.0	0.0	0.0	1.6	3.2	2.4	0.8	3.2	4.8	5.6	—
9	0.0	0.0	0.8	0.8	0.8	1.6	2.4	2.4	3.2	3.2	4.0	4.8	—
10	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	6.4	8.9	10.5	8.9	—
11	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	2.4	3.2	5.6	5.6	—
12	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.4	3.2	4.8	2.4	4.8	—
13	0.0	0.0	0.0	0.0	0.0	0.8	3.2	2.4	3.2	4.8	7.2	9.7	—
14	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	4.0	4.8	7.2	—
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.2	4.8	7.2	9.7	—
16	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.0	4.8	7.2	8.0	7.2	—
17	1.6	1.6	0.0	0.0	0.0	0.0	0.0	2.4	6.4	9.7	7.2	6.4	—
18	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	3.2	4.0	8.0	12.1	—
19	0.8	1.6	0.8	0.8	0.8	0.0	0.8	3.2	4.8	6.4	8.0	7.2	—
20	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	4.0	4.8	4.8	8.0	—
21	2.4	1.6	2.4	3.2	3.2	3.2	4.8	7.2	4.8	4.8	5.6	6.4	—
22	0.0	0.0	0.8	1.6	1.6	1.6	1.6	1.6	4.0	4.8	3.2	8.0	—
23	0.8	0.8	0.0	0.0	0.0	0.0	1.6	3.2	2.4	3.2	5.6	9.7	—
24	0.0	0.0	0.0	1.6	0.8	1.6	1.6	3.2	6.4	8.0	9.7	11.3	—
25	0.8	1.6	1.6	0.8	0.8	1.6	4.0	5.6	8.0	7.2	8.0	11.3	—
26	0.8	1.6	3.2	1.6	0.8	0.8	4.8	4.8	8.0	8.9	8.9	8.0	—
27	4.0	3.2	0.8	0.8	0.8	0.0	1.6	3.2	3.2	4.8	8.9	8.0	—
28	5.6	6.4	3.2	4.8	0.8	0.8	4.0	5.6	10.5	12.9	11.3	14.5	—
29	0.8	0.8	0.0	0.8	0.8	2.4	3.2	8.0	12.1	8.0	10.5	10.5	—
30	0.0	1.6	0.0	0.0	3.2	1.6	1.6	1.6	4.8	8.0	11.3	12.1	—
31	0.8	0.8	0.0	0.0	0.0	0.0	1.6	1.6	4.8	9.7	11.3	12.1	—
Hourly Means.	0.59	0.83	0.46	0.54	0.52	0.72	1.96	3.07	4.63	5.77	7.18	8.46	—

DECEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	9.7	4.8	6.4	5.6	4.8	4.0	2.4	0.0	0.0	0.0	1.6	0.8	2.80
2	8.9	4.8	5.6	6.4	7.2	4.0	3.2	1.6	0.8	0.0	0.0	0.0	2.84
3	6.4	12.1	17.7	12.9	6.4	6.4	7.2	4.8	2.4	3.2	0.8	0.8	4.55
4	11.3	9.7	9.7	6.4	5.6	2.4	4.0	11.3	8.0	2.4	1.6	0.0	4.16
5	13.7	13.7	12.1	10.5	6.4	3.2	0.0	0.0	3.2	1.6	0.8	0.0	3.79
6	6.4	8.0	7.2	4.8	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.97
7	11.3	9.7	8.0	3.2	0.8	0.0	1.6	3.2	0.8	0.8	0.8	0.8	3.01
8	9.7	16.1	5.6	2.4	1.6	1.6	1.6	4.8	6.4	2.4	1.6	0.0	3.14
9	8.0	11.3	12.9	11.3	4.0	4.0	3.2	1.6	0.8	1.6	0.8	1.6	3.55
10	8.9	9.7	9.7	7.2	6.4	4.8	0.8	0.0	0.8	0.0	0.8	0.0	3.56
11	5.6	12.1	11.3	10.5	6.4	4.0	4.8	7.2	8.9	4.0	1.6	1.6	4.22
12	9.7	9.7	11.3	10.5	4.8	0.0	8.0	3.2	1.6	0.8	0.0	0.8	3.32
13	9.7	9.7	9.7	11.3	8.0	8.0	4.0	3.2	3.2	3.2	0.8	0.0	4.25
14	9.7	3.2	4.8	5.6	6.4	4.0	1.6	1.6	1.6	0.0	0.0	0.0	2.50
15	11.3	11.3	9.7	8.0	6.4	6.4	4.0	4.8	0.0	0.0	0.0	0.0	3.78
16	7.2	8.9	5.6	9.7	3.2	8.9	4.8	2.4	1.6	0.0	0.8	0.0	3.71
17	8.0	8.9	7.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.58
18	13.7	12.1	11.3	8.0	4.8	1.6	0.8	1.6	1.6	3.2	5.6	2.4	4.22
19	12.1	13.7	14.5	11.3	4.8	1.6	3.2	4.8	2.4	1.6	0.8	0.8	4.45
20	11.3	9.7	7.2	4.8	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0	2.61
21	7.2	7.2	8.0	5.6	4.0	3.2	0.8	0.8	0.8	0.8	0.8	0.0	3.70
22	9.7	10.5	11.3	9.7	12.9	5.6	5.6	3.2	0.8	0.8	0.8	0.8	4.19
23	11.3	13.7	13.7	8.0	3.2	8.0	4.0	1.6	0.0	0.0	0.0	0.0	3.78
24	12.1	12.1	11.3	6.4	2.4	1.6	0.8	0.0	0.8	0.8	0.0	0.0	3.85
25	12.9	14.5	12.9	4.8	2.4	0.8	1.6	3.2	3.2	1.6	0.8	0.0	4.58
26	3.2	2.4	4.8	4.8	3.2	0.8	1.6	1.6	3.2	1.6	2.4	4.0	3.58
27	9.7	8.0	4.8	3.2	4.8	3.2	3.2	4.8	3.2	1.6	2.4	3.2	3.81
28	17.7	12.9	8.9	9.7	9.7	4.8	1.6	0.0	0.0	0.0	0.0	0.0	6.07
29	8.0	10.5	12.9	4.8	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	4.22
30	8.9	12.9	8.0	4.8	4.0	4.8	4.8	2.4	2.4	4.8	2.4	1.6	4.48
31	8.0	7.2	6.4	10.5	8.0	7.2	4.8	3.2	2.4	1.6	1.6	2.4	4.42
Hourly Means.	9.72	10.04	9.37	7.24	4.86	3.46	2.76	2.53	1.96	1.24	0.95	0.70	3.73

CLOUDS.

CLEAR = 0. OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER.	1	6	2	8	7	7	5	3	4	4	5	9	9	—
	2	10	10	10	10	10	10	9	10	10	7	10	10	—
	3	10	10	8	9	10	9	9	8	4	10	9	8	—
	4	10	10	7	5	8	10	10	10	10	9	9	9	—
	5	9	7	6	6	7	8	10	10	8	8	8	4	—
	6	7	9	6	6	5	9	9	8	10	9	10	10	—
	7	10	9	10	10	10	10	10	6	5	4	3	9	—
	8	6	4	8	8	5	7	4	3	4	5	4	5	—
	9	10	9	6	7	7	8	9	9	8	8	8	9	—
	10	4	4	3	4	4	6	7	10	10	10	10	9	—
	11	7	7	9	8	8	7	9	9	9	8	7	7	—
	12	1	0	0	1	7	5	3	2	2	1	9	5	—
	13	4	3	6	5	7	9	3	4	4	3	3	3	—
	14	7	7	5	5	5	6	8	8	6	5	9	9	—
	15	4	5	6	4	8	7	6	4	2	2	2	3	—
	16	3	1	1	1	4	6	3	2	3	5	6	7	—
	17	7	3	4	1	3	10	6	8	9	7	9	10	—
	18	4	3	2	2	4	7	4	2	4	6	7	4	—
	19	9	8	6	6	8	9	7	4	3	6	4	7	—
	20	8	9	4	6	7	4	4	5	5	4	6	7	—
	21	10	10	10	10	10	6	7	7	8	9	9	8	—
	22	10	9	6	10	9	9	10	8	8	6	6	5	—
	23	6	3	2	2	5	9	9	9	9	8	7	7	—
	24	4	7	6	4	3	3	3	4	6	6	7	8	—
	25	10	10	8	8	9	9	7	3	4	8	6	6	—
	26	10	10	10	10	10	6	4	4	3	6	6	10	—
	27	10	10	10	9	10	10	6	7	6	5	7	9	—
	28	10	10	10	10	9	10	10	10	4	5	10	10	—
	29	10	7	6	7	8	8	5	4	9	10	10	10	—
	30	6	9	7	4	9	8	10	10	10	9	9	10	—
	31	10	10	10	10	9	9	9	9	9	6	5	6	—
Hourly Means.		7.5	6.9	6.5	6.3	7.3	7.7	6.9	6.5	6.3	6.5	7.2	7.5	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
DECEMBER.	1	10	10	10	10	10	10	9	9	10	10	10	10	7.8
	2	10	9	9	9	10	10	10	10	10	10	10	10	9.7
	3	7	6	7	9	10	10	10	10	10	10	10	10	8.9
	4	9	9	9	10	10	10	10	10	10	10	8	8	9.2
	5	4	5	5	8	9	9	9	10	10	10	9	9	7.8
	6	10	10	10	10	9	10	10	10	9	10	8	9	8.9
	7	4	5	7	10	10	10	9	10	10	10	10	7	8.3
	8	6	9	10	6	10	8	10	10	10	10	10	10	7.2
	9	9	10	10	10	10	10	7	8	6	7	9	6	8.3
	10	10	10	10	10	10	10	10	10	10	9	4	3	7.8
	11	7	5	5	3	5	6	9	9	7	3	2	2	6.6
	12	6	5	4	4	5	8	7	7	5	5	7	5	4.3
	13	5	3	2	1	6	10	10	10	10	10	10	6	5.7
	14	10	10	10	10	10	10	10	10	6	6	7	7	7.8
	15	2	3	5	7	8	10	9	4	3	3	1	0	4.5
	16	7	9	9	10	10	10	10	10	10	8	4	2	5.9
	17	7	6	6	7	4	4	3	3	2	3	3	4	5.4
	18	6	4	3	2	1	7	6	6	4	7	7	8	4.6
	19	4	3	3	3	10	10	10	10	10	10	10	10	7.1
	20	10	10	10	10	10	10	10	10	10	10	10	10	7.9
	21	8	8	9	10	10	10	9	8	9	10	10	10	9.0
	22	8	8	8	5	9	10	10	10	9	9	10	8	8.3
	23	3	8	6	7	9	10	10	10	10	10	10	7	7.3
	24	3	4	10	10	10	10	10	10	9	10	10	10	7.0
	25	7	8	9	10	10	10	10	10	10	10	10	10	8.4
	26	10	10	10	10	10	10	10	10	9	10	10	10	8.7
	27	7	10	10	10	10	10	10	10	10	10	10	10	9.0
	28	9	8	9	9	10	9	10	7	8	8	6	6	8.6
	29	10	10	10	10	10	10	10	10	10	10	10	8	8.8
	30	10	9	10	9	9	9	9	9	9	8	7	6	8.5
	31	8	9	8	8	7	9	8	7	7	8	9	9	8.3
Hourly Means.		7.3	7.5	7.8	8.0	8.7	9.3	9.2	8.9	8.5	8.5	8.1	7.4	7.60

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER. 1	16.2	14.0	16.2	13.0	16.2	9.7	21.6	10.3	6.5	4.9	5.4	3.2	—
2	15.7	15.1	16.2	15.1	17.8	10.8	9.7	9.2	5.9	4.9	4.3	5.4	—
3	18.4	17.3	17.8	10.8	10.3	6.5	16.2	13.5	8.6	5.4	4.9	4.3	—
4	18.4	23.2	22.7	23.8	21.6	11.3	14.6	16.7	14.6	11.3	8.1	5.4	—
5	13.5	11.9	13.0	10.8	7.6	8.1	15.1	10.8	7.0	4.9	0.5	4.3	—
6	17.3	11.9	14.6	15.1	13.0	16.2	16.7	9.7	7.0	6.5	6.5	5.4	—
7	18.4	16.2	17.8	15.7	16.2	19.4	23.8	13.0	4.3	4.9	5.4	6.5	—
8	21.6	21.6	21.1	22.1	20.0	18.9	12.4	5.4	7.6	6.5	3.2	3.8	—
9	13.5	16.7	14.0	16.2	8.6	17.8	18.4	8.6	5.4	3.2	3.2	4.9	—
10	11.3	10.3	10.8	11.9	19.4	19.4	21.1	21.6	7.0	5.9	4.3	3.2	—
11	18.4	18.4	15.7	12.4	9.7	9.2	13.0	7.0	6.5	2.2	4.9	3.8	—
12	9.7	7.6	9.2	8.6	10.8	15.7	11.9	9.2	5.4	3.2	2.2	2.2	—
13	7.6	8.6	9.2	9.7	10.3	13.5	8.1	6.5	5.4	4.9	4.3	2.2	—
14	14.6	18.4	17.8	27.5	19.4	18.9	29.7	8.1	5.9	2.7	3.8	1.1	—
15	14.6	11.9	12.4	8.1	5.4	8.1	15.1	6.5	2.2	0.5	1.6	1.6	—
16	8.6	9.2	8.1	8.1	9.7	10.8	7.0	1.1	1.6	1.1	1.1	1.1	—
17	10.3	10.8	13.0	18.4	9.2	13.5	25.4	8.1	2.7	2.7	4.9	—	—
18	14.0	10.8	5.4	15.7	21.6	23.2	11.3	3.2	3.8	2.7	— 2.7	5.4	—
19	12.4	10.3	11.3	9.2	10.3	13.0	16.7	7.0	4.9	5.4	4.3	4.9	—
20	9.2	9.2	13.0	13.5	10.8	11.9	13.0	5.4	4.9	2.2	2.7	3.8	—
21	6.5	6.5	6.5	4.9	4.9	5.4	7.6	4.9	4.9	4.3	3.2	3.2	—
22	24.8	15.1	12.4	12.4	7.6	5.4	8.6	7.0	5.9	4.9	4.9	3.8	—
23	—	—	—	—	—	—	—	11.3	7.6	5.4	4.3	2.2	—
24	9.2	10.3	9.7	8.6	9.2	17.3	16.7	9.2	4.9	4.9	4.3	—	—
25	7.6	4.9	5.4	7.0	5.4	9.2	11.3	7.0	5.4	3.8	4.3	4.9	—
26	14.0	7.0	6.5	6.5	8.1	12.4	8.6	9.2	5.9	1.1	5.9	N	—
27	3.2	— 2.2	3.2	9.7	8.1	9.2	11.9	6.5	6.5	3.8	4.9	4.3	—
28	7.6	PN	7.6	7.0	9.7	12.4	7.6	7.6	8.1	4.9	4.3	3.2	—
29	15.1	13.5	16.7	14.6	10.8	11.3	10.3	10.3	5.9	— 7.6	1.6	7.0	—
30	15.7	11.9	13.5	12.4	15.7	9.2	13.5	2.7	3.2	4.3	2.7	4.3	—
31	10.3	10.8	9.7	11.9	11.9	6.5	9.2	7.0	7.6	6.5	4.3	5.4	—
Hourly Means.	13.3	12.1	12.4	12.7	12.0	12.5	14.2	8.5	5.9	3.9	3.8	4.0	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
DECEMBER. 1	PN	P	P	P	PN	N	16.2	20.5	21.6	19.4	19.4	19.4	14.1
2	1.1	13.0	3.2	8.1	1.6	10.8	P	—21.6	— 4.6	14.6	13.0	17.3	8.1
3	4.3	5.9	2.7	3.8	PN	PN	PN	PN	PN	PN	PN	6.5	9.2
4	5.4	5.9	4.9	8.6	10.3	11.9	5.4	5.4	4.3	10.8	13.0	16.2	12.2
5	3.8	2.7	4.3	5.4	5.9	8.6	12.4	18.4	7.0	9.2	11.3	14.0	8.8
6	8.6	4.9	8.6	7.6	20.0	28.6	8.6	10.3	14.6	14.0	15.7	16.2	12.4
7	5.9	7.0	3.8	N	N	N	25.9	10.3	13.5	20.5	17.3	14.6	13.4
8	4.3	0.5	PN	24.3	24.3	27.0	20.0	P	11.9	8.6	10.3	10.3	13.9
9	6.5	6.5	18.4	—18.9	8.1	11.9	20.5	18.9	16.7	15.1	15.1	10.3	10.8
10	3.8	2.2	3.8	4.3	6.5	9.2	14.0	20.5	14.6	6.5	16.2	16.2	11.0
11	5.9	3.8	2.7	5.4	8.1	15.7	12.4	5.4	5.9	7.6	7.6	8.6	8.8
12	2.2	7.0	4.3	4.9	9.7	8.6	14.0	7.6	11.9	13.0	15.1	11.3	8.6
13	3.8	3.2	3.8	3.8	— 0.5	PN	PN	PN	PN	8.6	12.4	13.5	6.9
14	PN	PN	PN	PN	PN	10.3	8.1	9.7	13.0	13.5	13.0	11.9	13.0
15	1.1	0.5	1.6	2.2	8.1	PN	25.9	5.9	5.9	8.6	12.4	9.2	7.4
16	2.7	1.4	2.7	—	—	—	—	—	16.2	15.1	14.0	11.3	6.9
17	4.3	3.8	3.2	— 4.6	—	—	10.8	12.4	11.3	11.9	10.3	13.5	9.3
18	4.3	3.8	7.6	9.7	9.7	17.3	25.4	21.1	21.1	17.8	12.4	14.0	11.6
19	3.8	2.2	4.3	PN	PN	PN	PN	PN	11.3	11.9	9.2	7.6	8.4
20	— 4.9	N	P	PN	PN	PN	PN	PN	8.1	5.9	12.4	14.0	7.9
21	3.8	5.9	5.4	6.5	6.5	5.9	10.3	15.7	20.0	12.4	10.3	7.6	7.2
22	2.7	—	—	—	—	—	—	—	—	—	—	—	8.9
23	2.2	3.8	3.8	11.3	16.7	11.9	16.2	10.3	13.5	11.3	15.1	11.3	9.3
24	—	1.1	PN	PN	PN	PN	— 5.4	7.6	11.3	13.0	14.6	13.5	8.9
25	3.8	15.1	14.6	N	P	21.1	—13.5	4.9	8.1	10.3	14.6	14.0	7.7
26	—11.3	N	9.7	5.4	7.6	6.5	PN	15.1	29.2	21.6	12.4	13.5	9.3
27	4.9	— 4.9	PN	PN	N	7.0	7.6	6.5	6.5	8.1	7.0	7.6	5.7
28	3.8	5.4	7.0	34.0	37.8	28.1	10.3	20.5	18.9	21.6	22.7	20.0	13.5
29	N	5.4	4.3	N	4.3	—13.5	14.6	19.4	19.4	20.0	19.4	18.9	10.1
30	3.2	6.5	2.7	20.5	8.1	19.4	11.3	13.5	17.8	10.8	11.3	9.2	10.1
31	5.4	15.7	PN	6.5	7.6	4.3	11.3	10.8	13.0	14.0	14.6	14.6	9.5
Hourly Means.	3.5	4.9	5.5	7.4	10.5	12.5	12.3	11.2	12.9	13.0	13.5	12.9	9.80

RAIN IN MILLIMETRES.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
January.	1	—	—	—	—	—	—	—	—	—	—	—	—	—
»	8	—	—	—	—	—	—	—	—	—	—	—	—	—
»	9	—	—	0.8	0.1	—	—	—	—	—	—	—	—	—
»	10	—	—	—	—	—	—	—	—	—	—	—	—	—
»	11	0.1	—	—	—	—	—	—	—	—	—	—	—	—
»	12	—	—	—	—	—	—	—	—	—	—	0.1	0.1	—
»	14	—	—	—	—	—	—	—	—	—	—	—	—	—
»	16	—	—	—	—	—	—	0 9	0.9	0.1	—	—	1.6	—
»	17	1.1	8.6	1.0	0.1	—	—	—	—	—	—	—	—	—
»	23	—	—	—	—	—	—	—	—	—	—	—	—	—
»	24	—	—	—	—	—	—	—	—	—	—	—	—	—
»	26	—	—	—	—	—	—	0.7	1.5	—	—	—	—	—
»	28	—	—	—	—	—	—	—	—	—	—	—	—	—
»	29	—	—	—	—	—	—	—	—	—	—	—	—	—
»	30	—	—	—	—	—	—	—	—	—	—	—	—	—
February.	1	—	—	—	—	—	—	—	—	—	—	—	—	—
»	2	—	—	—	—	—	—	—	0.1	0.1	—	—	—	—
»	3	—	—	—	—	—	—	—	—	—	0.2	0.1	—	—
»	6	—	—	—	—	—	—	—	—	—	—	—	—	—
»	7	—	—	—	—	—	—	—	—	—	—	—	7.7	—
»	8	—	—	—	—	—	—	—	—	—	—	7.3	6.6	—
»	9	0.2	0.2	0.1	0.4	27.6	6.7	1.9	0.1	0.1	0.1	—	—	—
»	10	19.1	1.3	6.9	6.0	1.4	0.3	0.1	0.1	—	—	—	—	—
»	14	—	—	—	—	—	3.0	0.6	0.1	—	—	—	—	—
»	15	1.0	8.1	2.9	0.1	0.1	—	—	—	0.1	—	—	—	—
»	16	0.3	0.1	0.2	0.3	0.1	—	—	—	—	—	—	—	—
»	17	—	6.8	2.2	3.4	2.0	0.1	—	—	—	—	7.4	2.1	—
»	18	—	—	—	—	—	—	—	—	—	—	—	—	—
»	19	—	—	—	0.1	—	—	0.1	—	—	—	—	—	—
»	20	—	—	—	—	—	—	—	—	—	—	—	—	—
»	21	—	—	—	—	—	—	—	—	—	—	—	—	—
»	24	—	—	—	—	—	—	—	—	—	—	—	—	—
»	26	—	—	—	—	—	—	—	—	—	—	—	—	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
January.	1	—	—	—	4.2	—	—	—	—	—	—	—	—	4.2
»	8	—	—	—	—	—	1.1	—	—	—	—	—	—	1.1
»	9	—	—	—	—	—	—	—	—	—	—	—	—	0.9
»	10	—	—	—	—	—	—	—	0.8	1.9	3.1	0.4	0.2	6.4
»	11	—	—	—	—	—	—	—	—	—	—	—	—	0.1
»	12	—	—	0.4	—	1.4	0.4	0.1	—	—	—	—	—	2.5
»	14	—	—	—	—	0.1	3.4	4.5	1.7	0.6	0.2	0.1	0.1	10.7
»	16	0.2	—	—	—	—	—	—	—	—	—	—	—	3.7
»	17	—	—	—	—	—	—	—	—	—	—	—	—	10.8
»	23	—	—	—	—	—	—	—	4.4	0.3	—	—	—	4.7
»	24	—	—	—	—	—	—	4.8	4.5	0.3	1.2	0.1	0.1	11.0
»	26	—	—	—	—	—	—	—	—	—	—	—	—	2.2
»	28	—	—	2.3	0.1	0.1	—	—	—	—	—	—	—	2.5
»	29	—	—	—	—	11.0	0.3	2.6	0.6	0.2	0.1	0.1	—	14.9
»	30	—	—	—	0.2	2.6	1.9	1.7	0.1	0.1	0.3	—	—	6.9
February.	1	—	—	—	0.4	—	0.5	0.8	1.5	0.6	0.1	—	—	3.9
»	2	—	—	—	—	—	—	—	—	—	—	—	—	0.2
»	3	—	—	—	—	—	—	—	—	—	—	—	—	0.3
»	6	—	—	—	—	—	—	—	2.4	0.5	0.1	—	—	3.0
»	7	1.1	0.1	—	—	0.2	—	—	—	—	—	—	—	9.1
»	8	0.1	—	—	—	—	1.6	3.5	0.1	2.4	1.1	6.0	0.5	29.2
»	9	—	—	—	—	—	22.2	0.8	0.1	—	—	—	—	60.5
»	10	—	—	—	—	—	—	—	—	—	—	—	—	35.2
»	14	0.3	0.2	0.1	6.8	18.2	0.1	4.2	8.6	0.2	2.3	4.7	2.2	51.6
»	15	—	—	—	—	—	—	10.3	28.2	2.6	1.7	0.3	1.8	57.2
»	16	—	—	—	—	—	—	3.5	0.2	0.1	—	—	—	4.8
»	17	0.1	—	—	—	—	—	—	—	—	—	—	—	24.1
»	18	4.8	0.6	0.1	0.5	—	—	—	—	—	—	—	—	6.0
»	19	—	—	—	—	—	—	—	—	—	—	—	—	0.2
»	20	—	0.3	—	—	—	—	—	—	—	—	—	—	0.3
»	21	—	—	—	—	6.3	0.1	—	—	—	—	—	—	6.4
»	24	—	—	—	—	—	—	—	5.9	0.1	—	—	—	6.0
»	26	—	—	—	—	—	0.5	12.4	1.5	1.2	0.2	—	—	15.8

RAIN IN MILLIMETRES.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
March.	3	—	—	—	—	—	—	—	—	—	—	—	—	—
»	4	—	—	—	—	—	0.1	—	—	—	—	—	—	—
»	5	0.1	—	—	—	—	—	—	—	—	—	—	—	—
»	6	—	—	—	0.3	0.5	—	—	—	—	0.6	1.9	0.2	—
»	7	—	—	—	—	—	—	—	—	—	—	—	—	—
»	8	0.2	0.1	—	—	—	—	—	—	—	2.6	5.6	1.1	—
»	9	—	—	13.2	22.2	8.0	2.7	2.0	1.2	0.5	—	—	—	—
»	10	—	—	—	—	—	—	—	—	—	—	—	—	—
»	17	—	—	—	0.3	0.1	—	—	—	—	—	—	—	—
»	18	—	—	—	—	—	—	—	—	—	—	—	—	—
»	19	—	—	—	—	—	—	—	—	—	—	—	—	—
»	20	0.2	—	—	—	—	—	—	—	—	—	—	—	—
»	21	—	—	17.9	4.0	3.7	0.7	0.2	0.1	—	—	—	—	—
»	22	—	—	—	—	—	—	—	—	—	—	—	—	—
»	24	—	—	—	—	—	—	—	—	—	—	—	—	—
»	28	—	—	—	—	—	—	—	—	—	—	—	—	—
April.	5	—	—	—	—	—	—	—	—	—	—	—	0.2	—
»	8	—	—	—	—	—	—	—	—	—	—	—	—	—
»	11	—	—	—	—	—	—	—	—	—	—	—	—	—
»	12	0.2	—	—	—	—	—	—	—	—	—	—	—	—
»	13	—	—	—	—	—	—	—	—	—	—	—	—	—
»	14	—	—	—	—	—	—	—	—	—	—	—	—	—
»	15	—	—	—	—	—	—	—	—	—	—	—	3.4	—
»	21	—	—	—	—	—	—	—	—	—	—	—	—	—
»	22	—	—	1.8	0.3	0.1	—	—	—	—	—	—	—	—
»	27	—	—	—	—	—	—	—	—	—	—	—	—	—
May.	3	—	—	—	—	—	—	—	—	—	—	—	—	—
»	4	—	—	—	—	—	—	—	—	—	—	—	—	—
»	6	—	—	—	—	—	—	—	—	—	—	—	—	—
»	7	—	—	—	—	—	—	—	—	—	—	—	—	—
»	12	—	—	—	—	—	—	—	—	—	—	—	—	—
»	13	—	—	—	—	—	—	—	—	—	—	—	—	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
March.	3	—	—	—	0.3	0.2	0.3	0.1	—	—	—	—	—	0.9
»	4	2.5	3.1	0.2	0.1	—	—	—	—	—	—	6.1	0.2	12.3
»	5	—	—	—	1.5	13.0	1.4	0.7	0.1	—	—	—	—	16.8
»	6	—	—	—	—	—	—	—	—	—	—	—	—	3.5
»	7	31.4	0.2	—	—	—	—	1.7	8.8	1.4	0.4	1.7	0.5	46.1
»	8	0.2	—	—	—	—	—	—	—	—	—	—	—	9.8
»	9	—	—	—	—	—	—	—	—	—	—	—	—	49.8
»	10	—	—	—	—	—	—	16.7	0.3	0.6	0.1	0.1	—	17.8
»	17	—	—	—	—	—	—	—	—	—	—	—	—	0.4
»	18	—	—	—	—	—	6.9	4.5	—	—	—	—	—	11.4
»	19	—	—	—	—	—	—	—	—	—	—	—	3.7	3.7
»	20	—	—	—	—	—	—	—	—	—	—	—	—	0.2
»	21	—	—	—	—	—	—	—	—	—	—	—	—	26.6
»	22	—	—	5.5	1.4	0.7	0.1	—	—	—	—	—	—	7.7
»	24	—	—	—	0.1	—	—	—	—	—	—	—	—	0.1
»	28	—	—	—	0.1	0.3	—	—	0.3	0.1	—	—	—	0.8
April.	5	6.7	0.2	0.9	1.3	0.2	0.1	—	—	—	—	—	—	9.6
»	8	1.1	0.1	—	—	—	—	—	—	—	—	—	—	1.2
»	11	—	—	—	—	—	—	—	—	0.9	0.1	—	—	1.0
»	12	—	—	—	—	—	—	—	—	—	—	—	—	0.2
»	13	—	—	—	8.3	0.1	0.1	—	—	—	—	—	—	8.5
»	14	—	—	0.7	0.8	0.1	—	—	—	—	—	—	—	1.6
»	15	12.4	0.1	5.2	0.8	—	—	—	—	—	—	—	—	21.9
»	21	—	—	—	—	—	—	—	2.5	2.5	0.6	0.1	0.1	5.8
»	22	34.2	12.1	1.1	—	—	7.9	0.4	0.1	—	—	—	—	58.0
»	27	—	—	—	—	—	—	—	0.1	—	—	—	—	0.1
May.	3	—	—	—	—	46.0	3.6	0.1	—	—	—	—	—	49.7
»	4	1.1	—	—	—	—	—	—	—	—	—	—	—	1.1
»	6	—	—	—	—	—	7.0	6.9	0.2	0.1	—	—	—	14.2
»	7	—	—	—	—	—	5.3	0.9	—	—	—	—	—	6.2
»	12	—	—	—	—	0.4	0.8	0.1	0.1	0.1	—	—	—	1.5
»	13	—	—	—	—	—	—	—	—	—	—	1.3	—	1.3

RAIN IN MILLIMETRES.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
May.	15	—	—	—	—	—	—	—	—	—	—	—	—	—
»	20	—	—	—	—	—	—	—	—	—	—	—	—	—
»	21	0.1	—	—	—	—	—	—	—	—	—	—	—	—
»	23	—	—	—	—	—	—	—	—	—	—	—	—	—
»	24	—	—	—	0.3	1.0	1.1	0.2	—	—	—	—	—	—
June.	1	—	—	0.9	1.0	2.7	0.6	0.2	0.1	—	—	—	—	—
»	2	—	—	—	—	—	—	—	—	—	—	2.2	0.1	—
»	6	—	—	—	—	—	—	—	—	—	—	—	—	—
»	7	0.1	—	—	—	—	—	—	—	—	—	—	—	—
»	10	—	—	—	—	—	—	—	—	—	—	0.4	—	—
»	16	—	—	—	—	—	—	—	—	—	—	—	—	—
»	20	—	—	—	—	—	—	—	—	—	—	—	—	—
»	21	—	—	—	—	—	—	—	—	—	—	—	—	—
»	24	—	—	—	—	—	—	—	—	—	—	—	—	—
July.	2	—	—	—	—	—	—	—	—	—	—	—	—	—
»	5	—	—	—	—	—	—	—	—	—	—	—	—	—
»	14	—	—	—	—	—	—	—	—	—	—	—	—	—
»	24	—	5.1	1.8	0.1	—	—	—	—	—	—	—	—	—
»	30	—	—	—	—	—	—	—	—	—	—	—	—	—
August.	2	—	—	—	—	—	—	—	—	—	—	—	—	—
»	8	—	—	—	—	—	—	—	—	—	—	—	—	—
»	29	—	—	—	—	—	—	—	—	—	—	—	—	—
»	30	—	—	—	—	—	—	—	—	—	—	—	—	—
»	31	—	—	—	—	—	—	—	—	—	—	—	—	—
September.	3	—	6.7	3.1	0.1	0.1	—	—	—	—	—	—	—	—
»	4	—	—	—	—	—	—	—	—	—	—	—	—	—
»	9	—	—	5.8	0.2	1.6	0.4	—	—	—	—	—	—	—
»	16	—	—	—	—	—	—	—	—	—	—	—	—	—
»	17	—	—	—	—	—	—	—	—	—	—	—	—	—
»	18	—	0.3	0.3	0.1	0.1	—	—	—	—	—	—	—	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
May.	15	—	3.9	0.1	—	—	—	—	—	—	—	—	—	4.0
»	20	—	—	—	38.5	9.0	0.2	—	—	—	—	—	1.1	48.8
»	21	—	—	—	0.3	0.1	1.1	2.2	2.9	0.3	0.1	0.1	—	7.2
»	23	—	—	—	—	—	—	0.3	—	—	—	—	—	0.3
»	24	—	—	1.7	0.1	—	0.5	0.2	0.1	—	—	—	—	5.2
June.	1	—	—	—	—	—	—	—	—	—	—	—	—	5.5
»	2	—	—	0.1	—	—	—	—	—	—	—	—	—	2.4
»	6	—	—	—	—	—	—	—	11.9	4.6	25.6	2.9	0.5	45.5
»	7	—	—	—	—	—	—	—	—	—	—	—	—	0.1
»	10	—	—	—	—	—	—	—	—	—	—	—	—	0.4
»	16	—	—	—	1.6	0.5	—	—	—	—	—	—	—	2.1
»	20	—	—	—	—	—	4.1	0.1	—	—	—	—	—	4.2
»	21	—	—	—	—	—	—	0.1	0.6	0.4	—	—	—	1.1
»	24	—	1.4	0.1	—	—	—	—	—	—	—	—	—	1.5
July.	2	—	—	0.8	0.4	0.2	0.1	—	—	—	—	—	—	1.5
»	5	—	—	—	—	—	17.6	14.3	0.2	—	—	—	—	32.1
»	14	—	—	—	—	12.8	0.1	—	—	—	—	—	—	12.9
»	24	—	—	—	—	—	—	—	—	—	—	—	—	7.0
»	30	—	—	—	—	—	—	—	0.3	8.9	0.4	0.1	—	9.7
August.	2	—	—	—	—	—	—	—	—	0.4	0.1	—	—	0.5
»	8	—	—	—	—	—	—	—	—	—	3.5	4.6	—	8.1
»	29	—	—	—	—	—	—	—	—	1.0	1.2	0.6	—	2.8
»	30	—	—	—	—	—	—	—	—	—	—	0.1	—	0.1
»	31	—	—	—	—	—	1.9	5.8	0.9	0.1	—	—	—	8.7
September.	3	—	—	—	—	—	—	—	—	2.4	0.2	0.9	0.3	13.8
»	4	—	—	—	—	—	—	—	1.9	26.3	0.8	0.2	0.1	29.3
»	9	—	—	—	—	—	—	—	—	—	—	—	—	8.0
»	16	—	—	—	—	22.3	4.0	3.7	0.6	0.1	—	0.3	0.1	31.1
»	17	—	—	9.7	0.6	0.1	—	—	—	0.5	0.1	—	—	11.0
»	18	—	—	—	—	—	—	—	—	—	—	—	—	0.8

RAIN IN MILLIMETRES.

avia	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
19	—	—	—	—	—	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	—
10	1.7	0.1	0.1	8.1	0.4	0.1	—	—	—	—	—	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	—	—	—	—	—	0.1	—
22	—	—	—	—	—	0.4	1.5	0.1	—	—	—	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—	—
27	—	—	—	—	—	—	—	—	—	—	—	—	—
28	0.1	—	—	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	—	—	—	—	—	—	—	—
5	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	—
19	—	—	—	—	—	—	—	—	—	—	—	3.7	—
20	—	—	3.4	9.0	2.2	0.1	0.1	—	—	—	18.5	1.0	—
21	—	0.6	0.3	0.1	—	—	—	—	—	—	—	—	—
22	0.2	0.2	0.1	—	—	—	—	—	—	—	—	—	—
23	—	—	—	—	—	—	—	—	—	—	0.4	0.1	—
24	—	—	—	—	—	—	—	—	—	—	—	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—	—
28	—	—	—	—	—	—	—	—	—	—	—	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—	—

avia	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
19	0.1	—	—	—	—	—	—	4.5	0.3	—	—	0.1	5.0
20	—	—	—	—	—	—	—	—	—	0.3	0.4	—	0.7
22	—	—	—	—	—	—	21.7	13.8	0.1	—	—	—	35.6
24	—	—	—	22.0	0.4	0.4	0.2	0.5	0.1	—	—	—	23.6
25	—	—	—	—	3.1	1.4	0.1	—	—	—	—	—	4.6
26	—	—	—	—	—	—	—	2.2	2.3	0.1	—	—	4.6
29	—	—	—	—	—	—	12.0	0.1	—	—	—	—	12.1
9	—	—	—	—	7.0	0.1	—	—	—	—	—	—	7.1
10	—	—	—	—	—	—	—	—	—	—	—	—	10.5
11	—	—	—	5.2	1.3	—	—	—	—	—	—	—	6.5
12	—	—	—	0.1	0.3	—	—	—	—	—	—	—	0.4
13	—	1.7	0.2	—	—	2.2	0.1	—	—	—	—	—	4.2
14	—	—	2.8	0.1	—	—	2.8	0.1	—	—	—	—	5.8
18	—	—	—	—	—	—	—	—	—	—	—	—	0.1
22	—	—	—	—	—	—	—	—	—	—	—	—	2.0
23	—	2.6	—	—	—	1.8	0.2	—	—	—	—	—	4.6
27	—	—	—	—	—	—	—	—	—	0.3	0.1	—	0.4
28	—	—	—	—	—	—	—	28.5	0.3	0.1	—	—	29.0
1	—	—	—	—	2.9	0.5	—	—	—	—	—	—	3.4
5	—	—	0.9	—	—	—	0.1	—	—	—	—	—	1.0
6	—	—	—	1.4	0.3	—	—	—	—	—	—	—	1.7
8	—	—	—	—	—	29.8	4.0	1.1	0.2	0.1	—	—	35.2
18	—	0.2	0.3	—	—	—	—	—	—	—	—	—	0.5
19	0.5	0.1	—	—	—	—	—	—	—	—	—	—	4.3
20	0.7	0.3	—	—	—	—	—	—	—	—	—	—	35.3
21	—	—	—	—	3.4	0.6	—	—	0.5	—	—	—	5.5
22	—	—	—	—	—	—	—	—	—	—	—	—	0.5
23	—	—	—	—	—	—	—	—	—	—	—	—	0.5
24	—	—	—	—	—	—	1.9	2.3	0.2	—	—	—	4.4
25	—	—	—	—	—	—	20.4	5.3	3.1	1.3	0.1	0.1	30.3
28	—	—	5.5	2.4	0.1	—	—	—	—	—	—	—	8.0
29	—	—	1.9	0.1	—	0.2	0.3	0.6	0.1	—	—	—	3.2

UNIVERSITY OF ILLINOIS LIBR
SEP 1 1921

RAIN IN MILLIMETRES.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
December. 1	—	—	—	—	—	—	—	—	—	—	—	0.2	—
» 2	—	—	—	—	—	—	—	—	—	—	—	—	—
» 3	—	—	—	—	—	—	—	—	—	—	—	—	—
» 4	0.1	—	—	—	—	—	—	—	—	—	—	—	—
» 7	—	—	—	—	—	—	—	—	—	—	—	—	—
» 8	—	—	—	—	—	—	—	—	—	—	—	—	—
» 10	—	—	—	—	—	—	—	—	—	—	—	—	—
» 13	—	—	—	—	—	—	—	—	—	—	—	—	—
» 14	—	—	—	—	—	—	—	—	—	—	—	—	—
» 16	—	—	—	—	—	—	—	—	—	—	—	—	—
» 17	—	5.3	0.1	—	—	—	—	—	—	—	—	—	—
» 19	—	—	—	—	—	—	—	—	—	—	—	—	—
» 20	—	—	—	—	—	—	—	—	—	—	—	—	—
» 24	—	—	—	—	—	—	—	—	—	—	—	—	—
» 25	—	—	—	—	—	—	—	—	—	—	—	—	—
» 26	—	—	—	—	—	—	—	—	—	—	—	0.6	—
» 27	—	0.5	0.2	0.1	0.1	—	—	—	—	—	—	—	—
» 28	—	1.2	0.7	0.2	—	—	—	—	—	—	—	—	—
» 29	—	—	—	—	—	—	—	—	—	0.1	0.6	—	—
» 30	—	—	—	—	—	—	—	0.1	0.2	—	—	—	—
» 31	—	—	—	—	—	—	—	—	—	—	—	—	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
December. 1	—	—	—	—	—	—	—	—	—	—	—	—	0.2
» 2	—	—	—	—	—	—	—	—	0.2	0.1	—	—	0.3
» 3	—	—	—	—	—	—	7.9	1.9	3.1	1.4	0.5	0.5	15.0
» 4	—	—	—	—	—	—	—	—	—	—	—	—	0.1
» 7	—	—	—	0.5	0.9	0.1	—	—	—	—	—	—	1.5
» 8	—	—	1.0	2.5	0.1	—	—	—	—	—	—	—	3.6
» 10	0.4	0.9	—	—	—	—	—	—	—	—	—	—	1.3
» 13	—	—	—	—	—	—	0.5	—	—	—	—	—	0.5
» 14	0.2	0.1	—	—	0.6	0.3	—	—	—	—	—	—	1.2
» 16	—	—	0.1	—	—	31.3	10.6	0.2	—	—	—	—	42.2
» 17	—	—	—	—	—	—	—	—	—	—	—	—	5.4
» 19	—	—	—	—	1.3	1.8	0.1	—	—	—	—	0.1	3.3
» 20	—	—	—	—	—	0.3	0.6	0.2	0.1	—	—	—	1.2
» 24	—	—	—	—	1.1	1.6	0.7	0.1	—	—	—	—	3.5
» 25	—	—	—	0.5	—	—	—	—	—	—	—	—	0.5
» 26	0.7	1.2	0.3	—	—	—	—	—	—	—	—	—	2.8
» 27	—	—	30.0	0.8	0.1	—	—	—	—	—	—	—	31.8
» 28	—	—	—	—	—	—	—	—	—	—	—	—	2.1
» 29	—	—	—	1.1	0.3	0.1	—	—	—	—	—	—	2.2
» 30	1.9	—	3.4	4.1	—	—	—	—	—	—	—	—	9.7
» 31	—	—	0.9	0.1	—	—	—	—	—	—	—	—	1.0

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

		8 A. M.	9	10	11	12	1 P. M.	2	3	4
MARCH.	1	—	—	—	—	—	—	—	—	—
	2	—	—	—	—	—	—	—	—	—
	3	—	—	—	—	—	—	—	—	—
	4	—	—	—	—	—	—	—	—	—
	5	—	—	—	—	—	—	—	—	—
	6	—	—	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—	—	—
	8	—	—	—	—	—	—	—	—	—
	9	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—
	11	—	—	—	—	—	—	—	—	—
	12	44.4	49.6	51.1	52.9	52.9	47.4	53.9	51.9	42.1
	13	32.6	36.6	48.4	53.0	39.4	55.2	53.4	46.4	38.9
	14	39.8	42.3	37.5	44.8	55.0	48.8	45.4	50.6	42.8
	15	41.4	44.1	51.8	43.9	44.0	45.0	42.2	33.1	31.4
	16	—	48.3	52.6	51.6	49.4	55.4	50.0	38.3	35.6
	17	48.2	46.6	49.9	48.1	45.0	48.9	—	30.4	—
	18	32.6	43.7	47.9	40.4	39.5	49.9	49.4	48.9	33.0
	19	43.2	48.9	51.3	53.9	40.8	51.6	53.0	54.9	45.0
	20	43.4	51.4	43.5	40.4	39.3	54.8	49.8	36.6	48.7
	21	24.9	34.4	39.3	42.9	46.9	52.9	49.7	49.7	47.3
	22	31.8	37.1	40.9	43.7	47.4	45.9	37.9	—	—
	23	32.4	33.0	33.4	35.6	36.9	48.6	52.7	42.9	39.4
	24	28.2	38.0	46.2	44.4	52.1	53.4	50.9	42.4	—
	25	42.4	46.6	52.6	49.8	52.6	53.9	47.6	42.4	38.1
	26	34.4	48.6	48.8	51.4	38.4	35.6	43.0	43.3	39.4
	27	34.0	41.9	47.9	54.6	53.4	51.8	54.8	46.0	49.1
	28	36.9	48.0	41.2	45.4	46.0	45.9	46.9	30.4	—
	29	39.0	44.0	47.8	45.8	49.1	53.0	42.4	—	—
	30	33.3	43.4	51.0	54.8	55.9	55.0	54.2	52.9	49.3
	31	46.6	51.6	53.7	54.6	41.2	55.4	55.2	48.9	48.9
Means.		37.34	43.91	46.84	47.60	46.26	50.42	49.07	43.89	41.93

		8 A. M.	9	10	11	12	1 P. M.	2	3	4
APRIL.	1	42.2	45.6	48.0	51.0	42.9	—	38.8	52.7	45.9
	2	38.2	44.5	46.0	50.6	52.4	48.9	45.9	44.2	37.4
	3	37.5	47.8	49.4	54.5	55.9	52.0	53.3	51.4	38.5
	4	39.3	47.1	52.9	55.4	56.5	49.5	43.1	50.8	35.4
	5	35.0	47.0	51.3	51.4	—	—	—	—	—
	6	38.9	34.9	51.1	52.1	53.1	51.8	53.4	51.5	47.9
	7	44.7	49.6	46.9	53.4	54.9	54.9	52.1	35.4	30.1
	8	31.9	40.4	50.0	51.9	—	—	42.3	49.0	36.8
	9	37.4	50.9	52.4	53.9	54.9	51.9	54.5	50.8	49.8
	10	44.1	49.2	47.4	48.9	53.4	50.1	37.9	43.0	46.5
	11	45.4	49.9	53.1	51.4	53.4	54.0	54.4	53.6	46.2
	12	44.4	43.9	43.9	47.1	50.7	48.9	53.9	37.4	27.9
	13	45.1	49.9	48.9	52.5	42.2	51.8	49.9	34.5	—
	14	44.4	45.9	52.9	44.4	45.8	49.9	45.2	—	—
	15	45.2	49.9	49.4	48.9	—	33.9	44.4	—	46.4
	16	43.2	48.9	52.1	44.9	56.0	54.4	52.6	37.4	41.2
	17	42.9	50.4	46.9	47.5	51.9	46.6	44.6	50.4	45.9
	18	36.2	46.3	52.8	51.3	48.1	51.9	52.0	42.9	35.6
	19	31.6	42.1	42.9	42.2	39.6	46.4	49.2	46.4	32.7
	20	41.6	44.9	50.6	54.2	52.9	54.4	52.4	50.8	44.9
	21	34.4	47.9	41.1	49.4	55.4	45.6	47.6	50.8	35.9
	22	29.9	37.4	39.9	53.9	43.0	—	—	31.6	32.4
	23	45.5	40.1	51.9	46.1	46.8	50.9	42.9	50.3	45.9
	24	31.5	36.9	35.9	47.4	50.1	50.4	38.4	38.8	31.2
	25	41.4	35.0	38.9	47.1	50.4	51.0	48.9	50.3	44.4
	26	44.4	49.9	52.9	53.9	50.6	45.3	54.0	50.4	43.9
	27	44.9	49.5	52.0	51.9	55.0	54.4	51.9	51.4	45.9
	28	43.8	48.6	51.8	44.1	46.2	53.6	52.0	50.1	45.0
	29	39.6	44.4	46.4	46.9	47.2	45.9	44.7	44.5	37.6
	30	31.9	37.8	45.5	46.0	45.6	39.0	46.4	46.0	41.9
Means.		39.88	45.22	48.17	49.81	50.18	49.52	48.10	46.16	40.49

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

		8 A. M.	9	10	11	12	1 P. M.	2	3	4
MAY.	1	44.0	49.4	45.9	50.9	50.6	53.4	52.5	49.4	45.4
	2	45.6	46.9	53.4	44.0	44.6	45.6	53.4	50.8	32.1
	3	31.1	46.1	44.5	43.3	48.1	52.0	54.0	50 4	46.9
	4	40.6	42.4	50.9	51.8	44.8	50.2	51.9	33.3	31.4
	5	39.5	47.8	39.6	46.8	50.5	52.5	52.4	52.1	46.9
	6	44.4	48.8	51.9	54.6	39.1	52.8	51.0	50 0	48.2
	7	42.8	47.4	51.6	51.9	52.3	48.9	50.9	44.9	36.0
	8	41.0	45.2	50.8	50.5	52.8	52.6	50.8	50.4	42.6
	9	34.5	45.8	52.0	49.4	54.8	55.8	54.7	54.5	36.0
	10	33.9	37.7	49.0	53.8	49.5	53.4	50.0	44.0	35.0
	11	30.2	39.2	51.9	52.4	48.0	49.9	52.4	49.9	46.4
	12	32.0	41.6	45.4	44.0	39.3	34.4	33.9	32.4	28.1
	13	42.2	48.4	51.0	52.4	52.8	54.0	52.6	49.9	45.9
	14	29.4	32.9	38.4	52.9	52.0	52.4	48.1	50.6	47.4
	15	39.9	43.8	49.7	45.7	52.4	—	37.8	36.5	32.4
	16	43.9	45.9	44.9	50.1	48.9	45.3	42.4	31.4	—
	17	42.4	48.0	51.4	43.6	53.4	53.1	51.9	49.4	36.4
	18	33.8	48.4	51.6	47.7	46.7	43.8	43.9	40.9	35.0
	19	27.5	29.4	34.0	38.4	41.5	38.3	45.3	39.7	41 8
	20	43.3	45.0	51.4	40.6	46.5	50.9	49.3	37.9	—
	21	34.9	40.4	40.2	45.1	45.4	39.4	35.9	—	—
	22	41.0	32.4	36.9	36.9	40.9	42.6	45.9	48.6	38.4
	23	37.5	45.3	42.6	51.2	51.3	41.9	46.1	39.5	31.9
	24	25.1	28.0	39.1	49.6	47.5	41.8	45.1	31.6	29.1
	25	30.3	32.9	41.1	52.9	52.8	52.9	54.4	44.0	38.6
	26	43.4	48.1	49.4	46.4	52.6	51.9	51.4	49.4	39.9
	27	40.9	43.7	47.0	50.4	45.4	53.4	50.7	50.0	42.9
	28	32.2	34.4	47.8	45.8	43.4	40.9	41.0	40.9	34.4
	29	36.9	41.5	42.3	45.5	44 5	48.9	46.3	41.8	25.6
	30	42.8	47.6	46.5	36.4	38.6	35.2	34.4	34.0	31.5
	31	40.6	46.0	46.9	48.6	49.9	51.9	50.2	42.4	38.4
Means.		37.66	42.59	46.42	47.54	47.77	48.00	47.76	44.02	38.02

		8 A. M.	9	10	11	12	1 P. M.	2	3	4
JUNE.	1	33.1	40.4	44.4	45.9	51.6	51.9	49.4	48.2	43.2
	2	42.4	47.8	52.4	28.8	33.7	51.9	43.0	32.1	43.9
	3	29.9	34.4	35.0	33.7	36.4	38.8	45.3	41.5	35.5
	4	43.2	47.9	50.6	51.9	53.4	54.4	52.8	50.3	31.2
	5	42.6	47.4	50.5	50.4	51.9	51.4	51.5	34.4	36.2
	6	44.1	48.4	50.2	46.9	45.6	53.2	51.4	50.9	46.1
	7	41.5	48.2	50.8	53.7	45.3	52.4	50.0	46.9	44.4
	8	37.4	47.3	42.0	45.1	43.4	43.4	39.2	37.9	39.2
	9	38.1	44.9	47.8	50.9	39.0	35.7	33.4	34.9	31.9
	10	—	30.2	31.6	30.2	46.9	38.9	38.1	32.3	28.2
	11	41.1	47.2	40.7	47.9	45.9	43.4	45.5	45.6	44.9
	12	28.5	37.4	40.0	47.0	41.3	40.8	51.6	49.9	51.4
	13	41.9	46.8	49.4	51.5	52.0	52.6	51.9	50.0	45.7
	14	41.3	47.1	49.3	51.1	51.9	51.2	50.9	49.9	46.4
	15	42.4	47.4	49.9	51.9	51.9	53.4	51.9	49.4	45.5
	16	33.8	43.1	45.4	50.5	51.9	52.4	56.1	49.9	—
	17	26.6	41.0	41.8	51.2	52.1	40.6	44.4	50.9	38.4
	18	31.0	39.4	38.4	46.0	47.6	45.0	44.6	39.8	34.1
	19	40.9	45.9	48.6	50.2	51.5	48.4	51.2	49.8	46.9
	20	24.9	30.9	35.4	49.9	44.9	45.8	38.4	33.9	44.0
	21	32.7	37.9	40.3	45.9	42.6	43.9	47.4	41.4	31.9
	22	25.9	29.1	31.1	34.3	33.4	34.9	39.2	38.9	37.4
	23	40.9	46.6	49.9	42.2	46.1	49.6	51.2	50.7	43.7
	24	24.9	31.8	29.9	29.4	34.9	47.6	34.6	42.0	32.9
	25	40.9	46.1	48.9	52.2	53.2	48.9	50.3	43.5	38.3
	26	38.2	43.9	48.8	46.9	48.9	49.1	50.9	43.9	35.9
	27	35.0	47.2	49.9	49.9	49.4	50.9	50.9	50.5	38.7
	28	35.9	36.9	39.8	50.4	49.9	43.9	40.8	38.9	34.7
	29	27.3	39.9	45.9	52.6	52.4	44.9	50.4	47.0	41.5
	30	37.9	45.1	49.2	50.1	41.4	45.1	50.9	46.4	40.9
Means.		35.91	42.25	44.26	46.29	46.35	46.81	46.91	44.06	39.76

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

		8 A. M.	9	10	11	12	1 P. M.	2	3	4
JULY.	1	37.4	45.9	49.6	51.9	51.4	48.3	45.9	34.4	31.4
	2	25.5	31.1	36.6	35.6	42.6	35.4	30.0	40.9	—
	3	39.9	39.6	46.5	40.4	50.0	45.4	35.2	36.2	34.6
	4	25.4	42.0	38.1	44.3	43.0	39.9	37.0	31.4	37.3
	5	38.2	46.9	48.1	50.9	52.4	46.4	38.0	47.4	48.0
	6	39.6	43.3	47.8	50.9	50.9	51.9	52.1	49.6	45.9
	7	39.5	45.0	48.4	49.7	51.1	51.0	50.9	50.0	47.0
	8	38.2	44.4	48.0	49.9	50.9	50.4	50.3	48.4	45.4
	9	38.2	43.9	48.9	50.9	51.5	51.0	50.0	47.6	37.9
	10	39.4	44.9	48.4	50.1	40.8	41.2	51.4	48.3	43.9
	11	39.5	44.9	48.6	50.4	51.0	51.6	50.9	50.4	45.4
	12	38.6	44.5	48.3	50.8	52.1	51.3	50.9	48.6	44.9
	13	40.2	45.5	49.3	51.0	49.5	51.8	44.1	49.2	40.6
	14	32.6	46.4	49.6	53.4	53.4	52.8	50.9	49.3	36.9
	15	41.9	45.4	49.4	50.9	51.9	50.5	49.7	48.5	45.5
	16	40.5	46.4	49.8	50.9	52.8	38.9	52.4	50.0	46.4
	17	40.5	46.1	49.7	47.4	51.3	39.9	50.9	49.0	46.5
	18	39.8	45.3	49.0	50.8	51.9	47.9	40.4	48.8	46.4
	19	39.6	45.5	48.4	49.6	50.3	47.9	41.5	45.7	44.9
	20	39.4	45.7	48.9	51.0	50.0	48.8	42.9	43.0	37.9
	21	39.6	44.0	44.3	52.8	49.4	40.4	50.9	48.4	35.2
	22	38.9	45.3	50.0	51.3	53.2	52.5	51.4	48.6	45.0
	23	40.4	46.6	49.9	50.5	52.4	51.9	50.6	48.7	45.6
	24	40.4	45.9	49.3	51.2	41.9	50.9	49.8	49.3	45.3
	25	39.8	45.5	48.6	50.9	52.9	51.2	53.4	49.9	44.9
	26	40.3	43.0	44.7	44.4	44.4	43.8	41.9	50.4	46.1
	27	39.3	44.3	50.5	50.5	38.4	42.8	49.6	36.8	28.8
	28	40.0	45.9	46.9	49.9	52.6	51.7	51.0	49.1	41.2
	29	38.9	41.4	49.9	52.9	36.3	48.4	45.5	37.9	42.3
	30	40.9	45.7	49.0	51.2	50.5	50.2	51.9	50.1	39.9
	31	31.3	41.8	51.8	51.4	49.2	44.5	54.0	45.3	32.4
Means.		38.18	44.26	47.95	49.61	49.03	47.44	47.27	46.17	40.44

		8 A. M.	9	10	11	12	1 P. M.	2	3	4
AUGUST.	1	41.4	46.9	49.7	51.5	52.9	52.6	52.0	51.0	34.6
	2	39.0	43.9	47.3	51.5	48.4	48.1	50.6	48.1	45.0
	3	38.9	45.3	49.9	40.3	53.4	52.4	50.4	48.5	46.0
	4	41.4	46.7	49.0	50.6	52.6	51.4	50.9	48.4	45.4
	5	39.9	46.0	49.6	50.2	48.6	45.9	51.0	49.4	45.2
	6	34.0	41.9	49.2	50.6	46.1	47.0	53.4	47.4	40.8
	7	34.9	47.1	48.2	49.5	53.0	50.0	49.2	47.3	40.2
	8	34.1	46.9	43.4	40.8	39.6	37.4	52.3	39.0	44.4
	9	40.4	46.0	48.9	52.4	49.1	38.3	46.4	49.6	41.8
	10	32.9	38.9	48.6	52.4	51.4	40.6	46.1	49.1	46.1
	11	39.0	46.0	49.0	51.2	50.3	41.6	45.4	48.9	45.1
	12	40.2	45.9	48.4	49.7	52.2	53.1	40.8	40.0	44.5
	13	39.9	44.4	46.6	52.4	53.7	44.4	49.8	47.9	39.9
	14	38.4	45.4	49.6	47.4	51.9	51.9	50.3	48.6	44.9
	15	28.4	34.4	38.0	38.4	42.4	40.4	40.2	33.6	31.9
	16	31.5	34.7	41.7	52.4	47.0	46.6	42.6	47.5	43.4
	17	27.3	30.9	35.3	45.5	50.1	46.0	48.2	49.2	46.0
	18	40.5	47.9	51.4	51.9	49.0	43.4	40.5	47.3	35.9
	19	40.6	46.1	50.4	45.4	44.4	43.9	50.4	48.7	44.2
	20	39.9	46.4	44.3	52.3	46.7	53.4	50.9	48.6	44.6
	21	40.8	46.9	49.5	52.5	48.2	53.4	50.4	48.9	43.4
	22	40.1	46.4	49.9	51.8	45.4	53.6	52.2	48.4	41.7
	23	39.9	48.0	50.9	53.4	52.3	51.9	50.1	46.4	43.6
	24	40.4	46.9	51.0	50.9	51.8	52.8	50.5	48.0	37.6
	25	40.4	47.0	50.6	53.4	52.0	52.2	50.9	46.7	33.9
	26	40.3	46.3	51.0	52.1	54.0	47.6	43.9	42.9	38.0
	27	42.0	49.6	52.0	46.0	54.8	55.4	50.7	49.1	46.1
	28	39.3	46.4	46.0	49.9	39.4	49.3	48.9	48.6	46.0
	29	41.8	40.4	46.6	40.4	38.1	40.4	35.9	34.9	32.2
	30	27.6	33.4	43.0	49.6	41.6	44.9	51.9	47.4	46.8
	31	30.1	38.4	41.6	52.2	47.4	45.0	41.6	40.5	33.4
Means.		37.59	43.92	47.44	49.31	48.64	47.58	48.01	46.45	41.70

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

		8 A. M.	9	10	11	12	1 P. M.	2	3	4
SEPTEMBER.	1	39.0	42.4	43.6	52.4	47.9	50.3	48.4	43.9	36.2
	2	39.9	44.7	38.5	48.9	54.2	37.6	49.9	41.2	43.1
	3	43.2	37.8	40.5	47.4	50.4	39.1	50.6	46.4	34.7
	4	42.9	47.2	49.9	51.4	53.8	50.9	42.9	39 4	43.1
	5	42.1	47.3	49.4	48.6	53.9	52.6	51.0	48.4	45.6
	6	36.4	45.9	49.8	43.4	49.9	52.3	51.1	45.4	39.6
	7	43.3	47.8	49.1	46.9	49.4	52.9	52.8	49.8	46.0
	8	28.4	40.8	35.4	42.1	45.1	46.3	50.1	48.3	41.9
	9	33.0	48.8	38.4	53.3	40.0	52.2	51.2	49.6	45.9
	10	39.2	41.8	50.8	51.4	49.6	53.4	51.9	49.2	44.9
	11	41.6	46.0	50.1	51.4	51.1	53.3	50.5	41.1	35.4
	12	43.2	48.4	48.4	47.5	41.3	53.6	50.5	48.4	35.4
	13	28.9	39.6	40.6	36.4	40.4	39.1	40.8	43.4	36.6
	14	40.0	46.4	52.7	51.7	52.4	51.8	51.3	48.4	43.4
	15	34.0	45.2	45.2	52.4	51.2	53.1	50.0	48.0	39.9
	16	32.9	45.4	52.3	50.4	37.1	54.4	54.2	34.8	42.9
	17	30.9	44.0	49.6	47.2	49.9	43.4	49.9	—	36.0
	18	33.1	45.9	50.2	52.9	49.4	53.9	42.7	49.4	42.9
	19	34.8	43.0	44.8	43.4	31.9	32.6	46.4	48.4	41.4
	20	29.3	44.6	49.1	54.0	41.3	53.4	40.6	43.9	40.9
	21	44.9	49.8	51.3	48.4	54.2	53.2	52.0	49.8	45.6
	22	41.8	44.2	45.3	41.4	47.1	44.5	45.5	40.4	38.0
	23	41.4	41.9	49.4	51.9	44.5	43.1	40.4	37.3	34.6
	24	47.0	42.6	42.4	53.9	38.4	53.2	48.2	—	—
	25	27.2	33.1	35.3	35.8	38.6	40.4	44.4	39.9	28.8
	26	42.4	46.4	49.5	51.4	53.6	54.3	52.2	50.3	45.8
	27	42.9	44.3	51.2	36.9	51.9	44.4	46.6	37.9	44.2
	28	35.1	35.9	40.8	49.9	36.1	37.9	47.9	37.4	33.9
	29	33.9	49.9	50.4	51.0	52.4	53.4	51.1	47.3	33.6
	30	41.9	48.3	50.6	51.9	55.1	52.4	50.0	48.6	42.9
Means.		37.82	44.31	46.49	48.19	47.07	48.43	48.50	44.87	40.11

		8 A. M.	9	10	11	12	1 P. M.	2	3	4
OCTOBER.	1	43.0	45.6	50.4	49.9	53.5	53.9	52.4	49.9	42.8
	2	44.4	47.3	50.5	52.5	53.3	49.9	53.9	48.0	34.6
	3	42.9	46.9	49.6	51.4	49.1	47.8	47.8	40.9	39.8
	4	42.3	47.1	49.9	52.4	54.4	54.3	52.0	48.4	36.8
	5	42.9	47.6	50.5	51.4	51.2	54.4	50.8	48.4	35.9
	6	40.8	43.6	51.4	40.5	42.9	54.6	50.4	48.4	35.5
	7	41.9	49.3	48.2	51.9	53.8	52 9	52.2	49.0	34.9
	8	45.0	47.9	48.2	53.4	49.9	51.4	51.2	50.2	35.5
	9	43.7	48.0	42.6	44.8	43.4	43.5	41.0	37.5	34.4
	10	43.7	47.6	49.4	50.1	48.8	52.2	45.2	44.8	37.4
	11	37.4	46.2	51.3	50.4	49.4	49.8	32.8	32.4	—
	12	42.9	47.4	49.9	42.9	51.4	52.4	51.3	50.6	32.6
	13	35.9	50.4	43.8	47.6	55.3	51.5	36.2	—	30.0
	14	44.9	48.4	50.0	46.3	50.0	50.0	54.4	34.5	30.4
	15	43.0	52.6	51.9	53.2	50 4	47.5	51.4	48.9	32.1
	16	43.4	47.8	50.4	52.5	53.1	44.9	45.1	42.8	35.2
	17	41.3	47.9	49.3	50.4	53.0	44.9	48.1	49.7	36.3
	18	35.5	49.3	47.4	50.4	34.5	48.9	44.9	41.7	36.9
	19	42.9	48.3	50.8	44.0	41.0	49.5	47.4	45 5	33.1
	20	32 4	42.8	46.2	49,4	50.9	50.9	40.9	36.6	33.9
	21	41.9	42.9	50.2	49.4	43.6	—	51.4	32.0	30.2
	22	30.6	44.2	43.4	44.9	52.4	48.5	49.4	50.4	33.8
	23	30.0	36.5	42.3	49.5	50.3	50.5	33.6	36.4	32.9
	24	45.2	48.9	50.0	50.4	47.8	51.1	51.4	46.2	35.4
	25	40.0	45.4	51.4	51.7	52.4	48.4	51.8	43.9	34.9
	26	43.6	49.2	52.5	41.5	48.6	46.4	39.6	33.1	31.4
	27	45.9	42.9	47.4	49.4	45.4	48.7	48.4	49.0	33.9
	28	35.5	42.8	39.3	42.8	43.1	42.1	41.4	38.3	34.3
	29	41.3	42.4	45.7	48.9	50.4	43.0	49.4	42.2	36.8
	30	34.9	44.4	48.4	54.4	51.4	46.4	45.0	44.6	35.4
	31	37.9	41.9	47.4	45.9	45 4	48.5	44.1	42.4	35.9
Means.		40.55	46.24	48.38	48.85	49.04	49.36	46.93	43.56	34.77

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

		8 A. M.	9	10	11	12	1 P. M.	2	3	4
NOVEMBER.	1	42.4	45.9	50.9	51.9	55.4	50.5	45.1	43.0	31.1
	2	27.7	28.9	32.5	44.7	37.0	37.8	38.7	38.3	33.4
	3	32.0	40.4	41.9	39.1	43.4	42.4	38.3	40.0	32.9
	4	29.2	33.2	38.0	39.4	47.5	39.3	45.0	44.0	34.6
	5	33.2	36.8	35.0	40.5	38.0	56.3	30.1	38.8	28.4
	6	39.3	48.4	53.4	48.6	43.2	43.1	40.2	41.4	—
	7	30.4	37.2	41.2	42.1	42.2	40.9	38.3	39.2	31.0
	8	34.4	43.4	43.4	43.0	40.9	53.9	48.5	41.4	33.7
	9	43.8	47.5	40.0	53.5	45.0	34.4	38.6	46.9	29.4
	10	33.8	41.2	44.4	39.6	37.8	41.4	45.2	44.1	34.7
	11	43.3	50.6	49.5	49.7	52.2	55.4	47.1	49.4	32.8
	12	36.4	41.5	51.5	40.6	45.6	52.3	51.9	50.3	35.3
	13	43.0	46.9	50.5	43.4	45.0	50.4	47.9	50.1	33.9
	14	41.4	43.9	39.6	43.5	42.3	51.4	53.0	48.0	33.9
	15	39.4	42.4	47.4	38.3	50.6	50.7	52.2	46.2	34.8
	16	39.3	42.8	43.6	50.5	53.9	50.2	44.8	49.5	34.6
	17	46.0	49.2	53.7	49.5	51.5	44.2	49.4	33.5	30.5
	18	43.4	48.9	50.1	53.2	39.9	46.4	—	28.3	27.0
	19	32.9	36.9	45.5	45.0	—	41.0	41.8	35.0	33.6
	20	42.3	41.9	39.5	—	—	—	29.6	34.6	32.6
	21	30.6	37.3	40.3	45.9	52.9	42.9	51.2	49.3	31.9
	22	36.5	39.6	44.4	49.9	52.3	46.2	43.2	45.4	33.9
	23	34.0	38.3	48.4	—	—	31.0	37.4	31.5	31.8
	24	37.0	47.9	50.3	52.4	41.8	48.0	55.0	33.4	29.4
	25	40.5	48.9	47.4	51.8	43.6	52.5	51.9	48.5	34.0
	26	37.9	38.6	47.6	50.0	41.2	50.0	48.6	36.4	32.2
	27	34.5	39.8	43.0	46.1	48.1	48.4	43.4	41.5	34.9
	28	43.0	46.5	54.6	44.6	56.9	50.0	46.8	—	—
	29	35.0	46.9	45.3	48.3	43.6	47.4	46.9	—	31.9
	30	38.0	42.1	44.6	52.1	48.0	48.4	52.6	37.4	32.0
Means.		37.35	42.46	45.25	46.33	45.92	46.44	44.92	41.62	32.51

		8 A. M.	9	10	11	12	1 P. M.	2	3	4
DECEMBER.	1	41.4	45.8	52.6	39.4	39.5	—	43.3	32.7	28.1
	2	32.9	40.9	45.5	49.1	50.4	35.9	42.3	40.4	34.1
	3	40.5	48.0	37.4	47.9	46.8	49.2	50.3	48.5	33.7
	4	31.2	38.0	45.0	48.3	51.4	45.4	40.8	39.0	33.6
	5	31.3	43.4	41.4	43.0	51.3	49.7	49.4	42.3	35.7
	6	39.3	35.9	45.9	38.2	—	—	31.5	32.4	31.2
	7	37.5	50.3	50.5	50.5	31.0	52.3	50.6	44.4	—
	8	45.3	41.4	41.2	46.7	46.4	52.1	44.5	—	27.9
	9	37.1	38.6	45.2	45.9	43.1	38.0	47.4	41.3	34.9
	10	27.5	31.3	37.5	42.4	50.4	—	39.6	35.7	33.3
	11	32.8	39.9	46.9	54.5	52.4	48.0	51.7	45.2	37.4
	12	43.6	44.3	54.2	36.3	46.0	54.4	46.5	45.9	33.9
	13	39.0	49.8	47.6	53.4	49.9	52.8	52.3	49.4	32.9
	14	37.8	44.2	45.1	41.4	45.1	27.4	30.1	31.2	26.9
	15	36.3	45.4	49.4	52.9	52.4	52.5	52.3	42.8	33.3
	16	42.7	45.8	45.4	46.9	50.8	56.2	38.9	36.4	32.0
	17	35.9	38.2	44.4	45.6	32.8	46.3	49.6	44.3	31.3
	18	43.0	45.4	42.4	51.4	42.8	49.3	49.9	49.8	32.8
	19	44.3	47.9	43.4	51.7	50.9	51.8	52.0	47.4	50.9
	20	36.7	36.2	47.4	48.4	46.5	45.9	43.7	34.8	28.0
	21	39.2	41.4	39.4	47.4	49.4	49.8	46.6	40.4	33.1
	22	31.9	38.8	47.4	51.9	46.6	49.8	44.8	44.9	35.4
	23	36.9	38.9	47.4	50.0	48.6	51.3	43.4	43.3	33.9
	24	—	—	—	—	48.6	54.4	51.6	—	—
	25	45.9	50.9	44.4	49.4	53.9	54.6	50.4	42.1	29.4
	26	47.8	50.3	49.4	48.8	—	—	—	33.4	33.4
	27	37.3	44.5	47.5	47.0	42.0	54.4	32.4	—	—
	28	32.4	48.4	50.9	38.9	44.4	41.9	43.1	40.0	34.1
	29	46.6	40.9	—	37.8	42.4	35.4	40.9	32.4	—
	30	34.4	34.4	41.4	48.3	45.5	35.5	44.8	—	33.8
	31	32.5	40.8	47.4	53.3	52.4	50.5	38.7	34.2	36.9
Means.		38.03	42.67	45.64	46.89	46.68	47.59	44.78	40.54	33.40

MAGNETICAL OBSERVATIONS.

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	10.5	10.3	10.2	10.2	10.2	10.2	9.7	9.8	9.7	9.2	8.3	8.6	—
	2	10.8	10.6	10.5	10.5	10.6	11.1	10.9	10.4	10.3	10.3	9.6	9.4	—
	3	10.3	10.2	10.1	9.8	10.0	10.0	10.0	9.8	9.7	9.8	9.7	9.8	—
	4	10.2	10.1	10.0	9.8	9.7	9.6	9.7	10.0	10.2	10.5	11.1	11.8	—
	5	10.1	10.0	10.1	10.1	9.8	9.0	9.2	8.3	8.7	9.2	10.0	10.4	—
	6	10.3	10.4	10.3	10.1	9.8	9.3	9.2	9.4	9.6	9.2	9.0	10.4	—
	7	10.1	10.1	10.0	9.8	10.0	9.7	8.7	9.1	8.8	9.1	9.0	9.8	—
	8	10.5	11.0	10.3	9.8	9.8	9.7	9.2	9.1	9.7	9.5	9.3	9.7	—
	9	10.3	10.5	10.4	10.3	9.7	9.0	8.8	9.1	9.3	9.8	10.1	10.0	—
	10	10.5	10.6	10.5	10.4	10.1	9.6	8.8	9.1	8.8	8.8	9.1	9.4	—
	11	10.4	10.5	10.5	9.8	9.3	8.1	8.5	9.2	9.4	10.0	10.2	12.0	—
	12	10.8	10.4	10.3	10.3	10.1	9.7	9.2	8.3	7.7	8.3	9.8	11.9	—
	13	10.4	10.3	10.2	10.0	9.5	9.1	8.5	8.6	9.1	9.4	10.1	11.2	—
	14	10.2	10.4	10.0	9.8	9.6	9.4	8.8	8.6	8.7	7.8	7.5	8.5	—
	15	9.8	10.5	9.3	11.0	9.8	9.7	9.0	9.1	9.7	10.8	10.1	10.4	—
	16	10.2	11.0	10.8	10.4	10.1	10.9	9.8	9.4	8.7	8.0	7.4	8.6	—
	17	9.8	10.6	9.8	10.1	10.9	10.0	9.6	9.0	8.6	8.6	8.7	9.8	—
	18	10.0	10.4	10.4	10.8	10.3	11.0	10.8	10.6	11.0	11.1	10.8	11.0	—
	19	10.0	10.0	10.1	9.8	9.7	9.1	8.3	9.7	9.1	9.7	9.7	10.3	—
	20	10.1	10.1	10.2	10.4	9.8	9.8	9.4	9.5	9.5	10.0	10.3	11.2	—
	21	10.0	10.0	10.0	9.7	9.7	9.6	9.2	9.8	10.5	10.3	10.2	10.0	—
	22	10.4	10.3	10.3	10.2	10.1	10.0	9.7	9.8	10.3	10.5	9.8	10.1	—
	23	10.0	9.7	9.6	9.1	9.0	8.7	7.5	7.4	7.9	8.7	9.8	11.8	—
	24	10.5	10.4	9.8	9.3	9.2	9.0	7.8	7.4	8.5	9.3	9.6	10.1	—
	25	10.2	10.3	10.4	10.1	9.8	9.0	7.3	8.0	8.7	9.0	10.0	11.1	—
	26	10.3	10.4	10.0	10.1	10.0	9.5	7.8	7.5	8.0	8.5	9.2	10.1	—
	27	10.1	10.1	10.1	10.4	10.0	9.6	8.1	7.9	7.8	7.9	9.0	10.9	—
	28	10.2	10.3	10.3	10.5	10.1	9.8	8.7	7.8	7.7	8.7	9.3	10.6	—
	29	10.2	9.6	9.8	10.1	9.8	10.1	9.5	8.7	8.7	8.6	8.7	9.6	—
	30	10.4	10.1	9.8	10.4	10.2	10.2	9.5	8.8	8.8	9.0	8.3	8.7	—
	31	10.3	10.8	10.1	10.1	10.0	9.7	9.3	9.3	9.1	9.5	10.1	10.9	—
Hourly Means.		10.25	10.32	10.14	10.10	9.89	9.65	9.05	8.98	9.11	9.33	9.48	10.26	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	9.2	10.0	10.8	11.9	11.9	11.3	11.3	11.4	11.1	10.9	10.8	10.8	10.35
	2	10.0	9.8	9.6	9.8	11.0	11.3	11.1	11.2	11.0	11.0	10.6	10.5	10.50
	3	10.4	10.6	11.3	12.0	11.9	11.7	11.4	11.3	11.1	11.1	10.6	10.5	10.55
	4	12.1	12.3	12.8	13.1	12.6	11.9	11.6	11.2	11.1	10.8	10.5	10.5	10.97
	5	11.0	11.1	11.8	12.2	11.8	11.6	11.0	11.2	11.0	10.9	10.6	10.4	10.40
	6	11.4	11.9	12.1	12.1	12.0	11.2	11.0	11.0	10.9	10.9	10.4	10.3	10.51
	7	10.8	11.4	11.8	12.1	12.0	11.6	11.3	11.3	11.1	11.0	10.9	10.8	10.43
	8	10.6	11.2	11.4	11.4	11.0	10.9	11.1	11.1	11.0	10.8	10.6	10.4	10.38
	9	11.2	11.2	11.6	11.3	11.6	11.6	11.3	11.2	11.1	11.0	10.6	10.6	10.48
	10	10.1	10.9	10.4	10.2	10.5	10.9	11.1	11.2	11.1	11.1	10.9	10.8	10.20
	11	13.0	12.9	12.1	11.7	11.9	11.6	11.4	11.2	10.9	10.9	10.8	10.9	10.72
	12	12.4	12.8	12.4	11.2	10.6	10.5	11.1	11.0	11.0	11.0	10.6	10.3	10.49
	13	12.0	13.2	13.2	12.6	12.0	11.8	11.4	11.0	11.0	10.9	10.6	10.9	10.71
	14	10.0	11.7	11.8	12.1	11.7	11.0	11.1	11.0	10.3	10.4	10.4	10.2	10.04
	15	11.0	11.1	11.4	11.2	11.9	11.2	10.9	11.1	11.0	10.8	9.8	10.4	10.46
	16	9.7	10.4	11.1	12.1	12.1	11.9	11.1	10.6	10.9	10.6	10.1	9.7	10.23
	17	10.8	11.2	11.0	10.9	11.0	10.9	11.3	11.0	10.8	10.5	10.5	10.9	10.26
	18	12.0	12.7	12.1	12.3	11.6	11.1	11.0	10.8	10.9	10.9	10.1	10.3	11.00
	19	11.1	11.3	11.8	12.1	11.2	11.0	11.0	10.9	10.8	10.8	10.4	10.4	10.33
	20	11.6	11.6	11.4	11.9	11.4	11.1	11.1	11.0	11.0	10.5	10.3	10.1	10.55
	21	10.2	11.0	11.1	11.2	11.0	11.0	11.0	10.9	10.8	10.6	10.4	10.5	10.36
	22	10.3	10.4	11.0	10.6	11.0	11.0	11.2	11.0	10.9	10.8	10.2	9.8	10.40
	23	12.1	12.0	12.0	12.4	12.1	11.8	11.2	10.9	10.6	10.9	10.9	10.8	10.29
	24	11.2	11.7	12.1	12.6	12.1	11.2	11.0	11.0	11.0	11.0	10.8	10.4	10.29
	25	12.0	12.3	12.2	12.1	11.6	11.2	11.2	11.2	10.8	10.3	10.2	10.4	10.39
	26	10.6	11.7	11.9	12.0	11.7	11.6	11.0	10.3	10.9	10.8	10.3	10.3	10.19
	27	11.6	12.1	12.6	12.3	11.4	11.0	10.9	11.0	11.0	10.8	10.6	10.3	10.31
	28	11.9	12.9	13.2	12.7	11.6	11.2	11.1	10.9	10.8	10.8	10.6	10.6	10.51
	29	10.9	12.0	11.8	12.1	11.9	11.9	11.4	11.4	10.9	10.9	10.2	10.6	10.39
	30	9.7	10.8	11.6	12.1	12.0	11.3	10.8	10.8	10.5	10.8	10.5	10.3	10.23
	31	10.9	11.2	11.3	11.8	12.0	11.4	10.9	11.0	10.9	11.0	10.6	10.6	10.53
Hourly Means.		11.03	11.53	11.70	11.81	11.62	11.31	11.14	11.04	10.91	10.82	10.49	10.46	10.43

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0. 36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	198	199	198	199	198	199	199	200	202	201	201	198	—
	2	196	196	199	200	200	202	207	208	211	218	226	228	—
	3	199	200	202	201	203	208	211	210	217	225	234	239	—
	4	180	189	187	190	190	193	189	188	191	197	203	201	—
	5	189	178	179	181	181	191	187	189	193	209	210	198	—
	6	185	183	183	186	191	196	200	207	217	228	227	217	—
	7	194	190	194	198	199	197	202	210	228	241	245	238	—
	8	185	197	198	195	194	191	196	206	203	220	221	219	—
	9	194	199	198	198	200	204	211	213	209	214	222	220	—
	10	190	190	194	193	193	195	205	217	222	230	236	239	—
	11	200	200	196	201	214	216	223	223	223	228	229	217	—
	12	181	190	187	190	192	199	207	216	227	238	238	223	—
	13	194	190	191	193	199	204	209	216	220	225	233	227	—
	14	199	195	200	207	209	213	213	223	234	266	261	242	—
	15	180	187	176	181	188	189	199	203	219	231	235	232	—
	16	179	171	182	183	180	180	186	189	191	200	202	204	—
	17	174	186	186	183	181	190	190	203	204	213	228	217	—
	18	191	182	180	183	184	181	190	204	207	223	234	217	—
	19	172	176	180	182	178	184	186	194	208	212	215	216	—
	20	181	179	179	181	184	182	193	200	210	210	213	209	—
	21	173	175	170	169	171	175	180	184	194	200	207	208	—
	22	171	174	178	177	177	175	184	191	200	206	211	216	—
	23	183	182	171	170	181	187	195	207	219	221	221	190	—
	24	180	174	178	195	182	182	188	191	188	188	202	206	—
	25	174	172	190	179	178	182	188	188	204	219	221	219	—
	26	171	177	185	176	179	181	192	192	204	207	215	190	—
	27	173	183	185	173	172	179	184	178	191	208	209	199	—
	28	171	177	172	171	176	178	185	190	195	199	206	206	—
	29	176	183	177	176	171	171	179	185	193	206	215	218	—
	30	170	179	185	176	178	178	178	177	182	190	193	192	—
	31	174	181	185	185	186	190	196	204	220	225	224	217	—
Hourly Means.		183.1	185.0	186.0	186.2	187.4	190.1	195.2	200.2	207.3	216.1	220.5	214.9	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	195	194	191	193	193	197	198	194	197	196	195	195	197.1
	2	224	213	204	200	200	200	200	195	193	192	199	198	204.5
	3	240	229	222	209	203	200	201	200	190	181	181	180	207.7
	4	194	187	184	177	171	169	166	167	170	174	174	172	183.5
	5	193	184	180	174	175	180	184	184	184	184	186	187	186.7
	6	219	215	208	205	201	192	190	192	195	190	193	196	200.7
	7	234	195	179	178	190	183	190	190	183	183	188	183	200.5
	8	210	205	204	200	200	196	194	190	189	194	190	193	199.6
	9	216	207	200	192	188	192	190	194	190	190	191	192	201.0
	10	226	216	211	207	203	198	199	196	196	196	195	194	205.9
	11	215	210	207	190	185	180	186	185	182	182	187	189	202.8
	12	199	196	195	199	195	192	187	191	189	190	187	192	200.0
	13	219	209	207	205	192	186	185	196	190	195	198	194	203.2
	14	233	224	209	202	200	198	198	199	175	183	180	189	210.5
	15	200	197	181	167	168	175	167	170	157	164	190	176	188.8
	16	208	200	185	172	166	156	187	182	190	168	188	188	184.9
	17	206	198	190	185	176	166	170	162	176	171	181	171	187.8
	18	200	184	181	171	167	171	176	177	176	169	198	171	188.2
	19	209	199	192	188	185	178	168	170	171	165	184	186	187.4
	20	199	194	178	168	167	172	173	174	172	172	167	166	184.3
	21	202	193	188	181	181	174	173	174	175	175	172	171	181.9
	22	207	199	185	183	185	185	166	170	178	189	204	218	188.7
	23	171	165	167	138	153	158	164	157	175	168	166	171	178.3
	24	200	190	177	164	167	169	168	163	152	154	159	170	178.6
	25	204	190	184	183	185	176	167	148	148	164	161	172	183.2
	26	191	181	176	168	169	166	166	172	152	163	168	173	179.8
	27	193	187	185	175	173	172	169	169	164	170	171	167	180.4
	28	196	187	171	171	174	175	176	179	179	178	179	181	182.2
	29	209	195	186	176	176	170	176	174	179	173	164	162	182.9
	30	192	184	177	171	174	177	177	177	174	166	168	172	178.6
	31	210	208	203	195	180	181	181	185	179	181	186	187	194.3
Hourly Means.		206.9	197.9	190.5	183.5	182.0	180.1	180.4	179.9	178.1	178.1	182.3	182.5	191.4

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	219	218	218	218	217	217	222	227	237	243	242	235	—
	2	231	229	227	227	225	223	232	227	227	224	221	224	—
	3	222	222	221	221	218	216	217	222	222	211	203	197	—
	4	235	232	230	229	227	226	226	233	229	221	210	212	—
	5	240	248	245	244	242	242	245	249	238	223	214	215	—
	6	247	250	249	245	244	243	242	245	242	243	238	223	—
	7	259	259	258	256	254	257	259	256	242	233	230	225	—
	8	264	256	258	259	262	266	270	262	260	256	253	245	—
	9	265	261	262	262	264	265	253	233	235	235	217	213	—
	10	254	253	251	253	254	256	251	254	254	246	243	242	—
	11	260	259	259	257	252	256	247	241	239	236	231	225	—
	12	266	261	261	259	259	257	255	246	245	238	233	236	—
	13	256	257	255	254	250	251	249	246	243	234	217	216	—
	14	259	258	254	254	250	252	254	234	227	213	213	223	—
	15	264	257	270	265	256	255	248	238	224	222	232	232	—
	16	259	262	255	256	256	255	259	256	254	241	233	223	—
	17	263	254	254	254	255	251	252	248	243	240	222	219	—
	18	258	262	266	264	261	263	259	251	256	258	254	259	—
	19	274	270	270	265	271	272	266	253	243	238	234	231	—
	20	275	278	281	277	275	277	280	271	266	266	265	261	—
	21	286	282	286	287	286	284	284	282	272	269	272	277	—
	22	291	288	286	287	288	289	290	286	280	279	276	274	—
	23	302	304	306	304	297	296	290	281	269	258	256	266	—
	24	295	297	298	291	298	300	299	286	275	273	265	266	—
	25	293	293	281	293	294	297	292	290	274	267	266	270	—
	26	299	298	293	302	301	299	298	299	293	290	282	288	—
	27	303	297	296	303	304	302	303	303	294	279	277	273	—
	28	304	299	302	302	299	299	302	303	292	280	261	261	—
	29	305	302	304	304	305	306	305	305	302	297	291	283	—
	30	310	304	299	303	302	302	307	310	304	303	303	301	—
	31	312	309	304	305	304	303	303	297	295	298	301	293	—
Hourly Means.		270.0	268.4	267.7	267.7	266.8	267.0	266.4	262.4	257.3	252.1	246.9	245.4	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	223	217	216	213	219	222	225	229	229	231	231	232	225.0
	2	218	227	234	233	225	222	223	225	226	228	227	224	226.2
	3	191	201	206	222	233	233	230	231	237	240	240	240	220.7
	4	219	232	239	247	249	253	255	252	250	249	249	250	235.6
	5	213	218	233	240	243	243	246	248	248	247	248	245	238.2
	6	217	217	225	237	251	262	264	261	258	262	259	258	245.1
	7	221	237	257	254	253	264	262	261	266	267	265	265	252.5
	8	242	240	246	257	266	270	269	270	271	267	267	266	260.1
	9	225	231	245	246	251	254	256	254	256	257	256	254	247.9
	10	244	256	265	266	267	266	264	264	265	265	265	265	256.8
	11	223	245	261	265	263	269	265	265	270	269	265	263	253.5
	12	255	262	267	272	272	263	259	261	260	259	262	259	257.0
	13	214	221	237	242	255	259	263	257	260	258	258	259	246.3
	14	215	225	244	249	259	258	258	256	270	264	266	260	246.5
	15	260	265	278	285	277	266	271	259	274	268	254	259	257.5
	16	217	219	233	241	254	262	249	254	253	264	255	255	248.5
	17	238	245	257	261	266	272	270	270	265	269	263	270	254.2
	18	259	270	270	277	281	278	272	271	271	273	260	275	265.3
	19	233	243	256	266	277	281	283	286	282	286	273	278	263.8
	20	269	267	267	272	281	281	283	284	286	285	287	290	276.0
	21	275	271	280	285	288	291	291	291	290	289	289	290	283.2
	22	278	287	294	297	294	297	307	303	298	292	286	279	288.6
	23	280	285	285	305	302	297	298	305	299	301	302	300	291.2
	24	266	268	275	284	293	294	296	301	309	307	306	299	289.2
	25	282	293	300	302	300	303	310	322	319	306	307	299	293.9
	26	289	286	295	302	304	306	306	306	317	311	304	303	298.8
	27	277	282	287	299	305	307	307	306	310	307	305	307	297.2
	28	266	271	280	300	306	305	303	303	303	303	303	303	293.8
	29	277	287	297	302	305	310	305	307	305	309	316	317	301.9
	30	304	305	309	308	305	307	309	310	312	318	315	314	306.8
	31	298	302	301	299	305	309	308	305	310	308	304	305	303.3
Hourly Means.		248.0	254.0	262.5	268.6	272.5	274.3	274.4	274.7	276.4	276.1	273.8	273.6	265.3

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY.	1	10.8	10.7	10.5	10.2	9.9	10.2	8.9	7.8	6.9	7.4	7.8	10.2	—
	2	10.7	10.0	10.4	10.8	10.4	10.5	9.9	8.9	9.6	8.9	9.1	9.2	—
	3	11.0	10.9	11.0	11.2	10.9	10.4	9.2	9.1	9.4	9.1	9.5	9.9	—
	4	10.5	10.4	10.2	9.7	9.6	9.4	9.2	8.1	9.5	10.0	10.5	11.4	—
	5	10.5	11.0	10.8	10.9	10.6	10.2	8.9	8.1	7.9	8.9	9.7	10.8	—
	6	11.2	11.2	10.7	11.0	11.3	10.1	9.4	9.5	9.0	10.6	12.6	13.3	—
	7	10.8	10.8	10.9	11.2	10.8	9.9	8.6	8.5	8.7	9.5	10.4	10.6	—
	8	10.7	11.0	10.8	10.5	9.9	9.4	7.7	8.1	9.9	11.4	12.1	13.1	—
	9	11.0	10.9	10.5	10.5	9.8	8.7	6.8	6.4	7.3	8.9	10.8	12.7	—
	10	10.7	11.2	10.6	10.7	10.5	9.9	8.3	7.5	8.5	9.4	11.3	12.2	—
	11	10.7	10.8	10.6	10.5	10.2	9.7	6.9	5.0	4.9	7.0	9.5	10.9	—
	12	10.9	11.0	10.9	10.7	10.4	10.1	8.7	7.5	7.3	7.7	9.4	11.2	—
	13	10.6	10.5	10.6	10.7	10.9	11.0	11.0	9.6	8.6	8.6	9.2	10.9	—
	14	10.0	10.4	10.6	10.4	10.5	10.4	9.8	9.0	10.2	10.9	11.6	11.8	—
	15	10.9	11.2	10.5	10.2	10.4	11.0	10.4	11.0	9.8	10.6	10.7	11.5	—
	16	10.6	10.7	10.8	11.0	10.9	10.6	10.2	10.1	10.2	10.5	10.7	11.3	—
	17	10.6	10.9	10.7	10.6	10.2	10.5	9.6	9.4	10.4	10.9	11.6	12.6	—
	18	10.6	10.6	10.4	10.5	10.2	9.5	8.9	9.7	10.7	11.3	11.6	12.3	—
	19	10.5	10.6	10.5	10.4	10.4	10.1	9.2	8.9	9.5	10.1	11.0	11.7	—
	20	10.2	9.9	10.2	10.1	9.7	9.5	8.3	7.5	7.8	9.4	9.2	10.4	—
	21	10.1	10.0	9.6	9.6	8.6	8.3	7.6	7.3	7.7	9.5	10.5	11.4	—
	22	10.5	10.4	10.4	10.7	9.9	9.5	8.6	7.5	7.5	8.3	10.5	11.5	—
	23	9.9	10.4	9.8	10.5	10.2	9.9	9.0	8.5	8.9	10.2	12.2	13.6	—
	24	10.5	10.7	10.4	10.7	10.2	9.9	8.6	7.5	8.3	9.8	11.3	13.1	—
	25	10.7	10.9	10.8	10.6	10.4	9.8	8.3	7.7	7.8	8.4	9.6	11.4	—
	26	10.4	10.5	10.4	10.6	10.2	10.1	8.2	7.0	7.1	7.8	9.9	12.5	—
	27	10.9	10.2	10.2	10.2	10.2	10.2	9.1	8.2	8.2	9.2	11.2	12.3	—
	28	10.2	10.2	10.4	10.2	10.1	9.6	8.7	8.6	8.4	9.5	10.9	12.2	—
Hourly Means.		10.60	10.64	10.51	10.53	10.26	9.94	8.86	8.29	8.57	9.42	10.51	11.64	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY.	1	10.5	11.6	12.5	12.5	12.5	12.5	11.8	11.4	11.4	11.4	11.2	11.0	10.48
	2	9.8	11.0	11.6	12.4	11.8	12.0	11.7	11.5	11.0	11.2	11.3	11.2	10.62
	3	9.9	10.5	11.4	11.7	11.4	11.4	11.4	11.0	11.2	11.2	10.9	10.6	10.59
	4	12.4	12.5	12.5	12.4	12.2	11.8	12.0	11.6	11.5	11.4	10.8	10.4	10.83
	5	12.0	12.3	12.2	11.7	11.8	11.4	11.4	11.3	11.2	10.6	10.8	10.5	10.65
	6	12.7	12.0	11.2	10.5	10.9	11.2	11.5	11.3	11.0	11.0	11.0	10.8	11.04
	7	10.6	11.2	11.6	12.1	11.8	12.3	11.6	11.8	11.5	10.9	10.8	10.9	10.74
	8	13.4	13.1	12.5	11.5	11.2	11.3	11.4	11.2	11.4	11.3	11.0	11.0	11.04
	9	13.8	14.6	13.3	12.1	11.2	11.2	11.0	10.1	10.6	10.9	10.5	10.9	10.60
	10	12.5	13.1	12.8	12.5	11.3	10.6	11.0	11.2	10.9	11.0	10.7	10.8	10.80
	11	12.4	13.9	13.5	12.7	12.0	11.4	11.4	11.3	10.0	10.5	10.9	10.9	10.32
	12	11.7	12.2	12.5	11.7	11.6	11.4	11.0	9.8	10.8	10.8	10.8	10.8	10.45
	13	11.0	12.1	12.5	12.4	11.7	11.4	11.3	10.5	10.5	10.9	10.6	10.7	10.74
	14	12.3	13.0	12.8	12.3	11.7	11.7	11.5	10.4	10.9	11.2	11.2	10.7	11.05
	15	11.8	11.8	11.7	11.8	11.6	11.5	11.3	11.3	11.2	11.2	10.9	11.0	11.05
	16	11.4	12.0	12.3	12.0	11.5	11.5	11.5	11.2	11.3	11.2	10.9	11.0	11.06
	17	11.8	11.3	10.6	10.7	11.0	11.2	11.2	10.9	10.7	10.7	10.6	10.6	10.80
	18	12.4	12.4	12.5	12.5	12.1	11.4	11.3	11.0	10.8	11.0	10.5	10.6	11.03
	19	12.0	12.4	12.0	11.6	11.2	11.2	11.3	10.9	10.6	10.7	10.6	10.5	10.75
	20	11.6	11.5	11.3	11.3	11.2	11.8	11.5	11.4	11.5	11.2	11.0	10.5	10.33
	21	12.5	13.0	12.0	12.0	11.5	11.6	10.8	11.2	10.5	10.2	10.6	10.6	10.28
	22	11.7	11.6	11.7	11.5	11.5	11.5	10.9	11.7	11.0	11.2	10.1	9.7	10.39
	23	14.0	13.8	13.1	12.5	12.0	12.2	11.7	11.2	10.7	10.7	10.1	10.7	11.08
	24	13.4	13.4	13.1	12.5	11.5	11.5	11.4	11.0	10.8	10.8	10.7	10.6	10.90
	25	12.5	12.3	12.1	12.1	11.6	11.2	11.3	11.0	11.0	10.1	10.5	10.5	10.53
	26	13.5	13.9	13.1	12.2	12.0	11.6	11.2	11.0	11.2	10.7	10.5	10.8	10.68
	27	12.7	12.5	12.3	11.8	11.2	11.2	11.2	11.2	11.0	10.4	10.7	10.6	10.70
	28	13.1	13.2	12.6	12.2	12.0	11.7	11.4	11.2	10.8	10.8	10.5	10.6	10.80
Hourly Means.		12.12	12.44	12.26	11.97	11.61	11.53	11.36	11.09	10.96	10.90	10.74	10.70	10.73

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY. 1	196	199	199	193	200	191	192	208	220	220	237	208	—
2	191	186	182	185	181	186	190	195	194	210	214	214	—
3	187	192	187	187	187	191	196	202	216	228	231	226	—
4	203	199	194	196	199	188	195	191	187	198	216	206	—
5	184	185	185	197	195	197	201	208	217	224	228	228	—
6	186	177	182	185	187	189	191	196	213	212	216	220	—
7	190	195	193	192	191	191	200	206	214	222	230	234	—
8	182	185	192	191	191	196	199	205	214	214	215	213	—
9	196	197	198	206	207	214	228	235	244	241	244	232	—
10	201	192	193	189	187	186	195	211	211	221	217	207	—
11	185	183	188	192	196	193	202	195	199	198	206	213	—
12	184	186	195	192	195	197	198	197	194	187	195	198	—
13	200	199	178	175	175	185	176	176	190	197	206	176	—
14	173	178	170	176	174	169	183	189	195	203	205	210	—
15	168	205	184	181	178	177	180	174	177	173	179	172	—
16	173	171	179	178	184	176	183	186	184	194	202	206	—
17	175	184	189	185	187	186	191	192	195	199	204	202	—
18	187	186	186	192	194	191	196	208	214	224	230	225	—
19	194	187	189	190	191	190	190	193	207	219	225	225	—
20	168	187	187	184	186	201	205	202	210	213	236	228	—
21	181	172	180	180	196	196	201	206	206	208	215	204	—
22	164	172	177	176	190	173	169	176	191	199	202	197	—
23	162	159	186	168	173	176	183	196	203	212	219	210	—
24	161	166	175	175	178	172	173	182	196	205	208	196	—
25	165	172	177	173	175	178	185	196	209	220	221	214	—
26	174	177	180	177	177	182	182	196	211	227	237	225	—
27	172	172	175	177	174	180	185	193	204	216	217	216	—
28	163	158	164	172	177	180	187	203	217	227	234	225	—
Hourly Means.	180.9	182.9	184.4	184.4	186.6	186.8	191.3	197.0	204.7	211.1	217.4	211.8	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY. 1	211	211	168	157	164	175	182	183	182	185	180	179	193.3
2	211	197	190	186	182	186	184	183	193	189	185	185	191.5
3	231	217	206	193	195	202	201	197	196	192	196	196	202.2
4	205	220	230	215	209	201	201	205	202	195	184	191	201.3
5	223	206	192	189	184	187	184	183	180	196	181	187	197.5
6	213	208	197	187	184	183	182	177	180	181	186	189	192.5
7	224	215	209	206	208	196	186	160	148	148	162	171	195.5
8	212	205	199	190	191	194	196	194	189	189	191	185	197.2
9	216	186	174	176	178	163	152	175	189	183	195	186	200.6
10	198	193	194	184	181	183	185	180	187	181	186	187	193.7
11	204	188	191	188	176	177	180	185	196	196	185	183	191.6
12	201	196	184	184	181	165	144	154	170	175	184	190	185.3
13	190	184	173	167	153	162	155	181	152	149	149	181	176.2
14	210	196	191	169	172	177	169	158	169	161	180	179	181.5
15	170	177	176	173	168	164	168	171	173	164	180	174	175.3
16	201	191	173	163	168	172	170	178	173	168	169	173	179.8
17	196	191	180	183	186	182	172	183	182	181	181	182	187.0
18	214	206	198	188	182	181	183	183	186	184	190	187	196.5
19	216	207	200	196	191	190	187	190	194	191	187	177	196.9
20	201	196	174	176	181	159	153	168	152	172	158	165	185.9
21	188	172	166	158	171	159	171	150	180	164	151	162	180.7
22	196	191	185	175	180	166	163	169	171	177	185	203	181.1
23	199	181	169	166	163	149	158	166	168	159	168	168	177.5
24	193	180	160	152	162	166	167	169	171	168	170	169	175.6
25	204	196	183	174	176	173	172	167	170	182	172	172	184.4
26	216	197	182	177	166	168	171	169	170	167	172	171	186.3
27	206	197	180	168	180	182	168	154	147	175	156	150	181.0
28	218	204	195	183	170	169	172	172	177	173	175	158	186.4
Hourly Means.	206.0	196.7	186.4	179.4	178.6	176.4	174.1	175.1	176.7	176.6	177.1	178.6	188.4

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	266	266	265	268	266	269	277	284	274	264	241	257	—
2	274	279	277	275	275	274	276	274	269	266	275	276	—
3	278	276	277	277	276	278	275	260	260	256	253	257	—
4	269	273	276	275	274	277	276	275	276	264	245	246	—
5	277	275	274	267	268	270	270	257	244	234	230	220	—
6	270	276	274	274	271	274	275	235	218	212	198	206	—
7	244	242	244	247	248	251	250	254	247	234	222	228	—
8	258	254	253	257	259	262	265	258	241	230	226	234	—
9	258	257	256	254	256	259	253	231	216	208	200	211	—
10	245	248	249	252	256	259	259	249	239	221	214	219	—
11	258	259	254	253	253	262	272	276	257	234	211	198	—
12	265	261	255	257	257	258	269	266	263	256	236	223	—
13	266	263	281	281	277	268	278	297	285	276	270	272	—
14	291	294	294	285	289	290	284	278	269	265	261	261	—
15	296	274	287	294	291	288	290	296	290	285	273	277	—
16	296	296	291	290	288	292	288	282	280	268	269	265	—
17	288	284	285	288	286	288	283	266	261	254	250	250	—
18	277	276	277	274	274	277	270	245	237	230	233	241	—
19	269	271	270	271	270	271	275	286	273	264	256	249	—
20	307	293	291	294	292	286	288	287	282	276	258	258	—
21	294	297	295	294	288	290	292	289	276	271	262	273	—
22	307	302	300	300	295	311	318	307	282	272	266	270	—
23	319	323	302	311	309	308	307	304	295	276	266	283	—
24	322	318	313	312	312	318	320	304	281	270	264	272	—
25	316	313	307	310	310	312	311	290	281	276	277	283	—
26	312	310	308	311	310	309	318	311	294	280	265	270	—
27	313	313	311	310	310	308	310	320	307	288	273	275	—
28	325	326	320	314	312	313	313	309	300	290	286	304	—
Hourly Means.	284.3	282.8	281.6	282.0	281.1	282.9	284.4	278.2	267.8	257.9	249.3	252.8	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	256	254	273	273	263	268	270	274	274	274	278	275	267.9
2	275	278	277	280	283	281	278	281	277	280	281	280	276.7
3	257	257	261	269	272	269	274	273	273	274	275	273	268.8
4	243	234	229	258	260	268	270	269	270	273	280	282	265.1
5	218	233	257	267	271	274	276	277	281	273	277	277	261.1
6	218	229	243	247	249	249	250	255	252	251	248	245	246.6
7	232	233	240	249	252	258	268	280	288	284	273	261	251.2
8	234	242	254	267	267	259	259	260	264	264	261	262	253.8
9	227	243	256	258	258	264	273	262	249	252	248	252	245.9
10	226	226	234	249	259	258	254	258	256	258	261	257	246.1
11	202	218	229	245	257	263	264	261	259	256	264	266	248.8
12	225	233	243	251	256	268	287	286	269	270	268	266	257.8
13	269	273	278	289	298	295	297	285	306	305	305	284	283.3
14	268	277	290	307	309	300	299	310	297	300	293	288	287.5
15	283	276	281	288	294	298	295	293	293	298	291	294	288.5
16	274	281	289	297	294	288	291	287	289	291	294	291	286.3
17	269	274	280	278	275	278	283	280	278	278	280	278	275.6
18	251	261	271	273	277	282	279	278	276	275	272	272	265.8
19	260	272	281	295	299	296	297	296	293	293	294	301	279.3
20	266	275	295	297	291	302	314	304	312	307	310	303	291.2
21	282	298	307	316	307	311	311	319	303	314	319	312	296.7
22	278	285	289	297	297	306	314	312	312	309	310	297	297.3
23	305	325	334	339	331	331	328	326	325	329	322	318	313.2
24	290	30[illegible]	318	326	321	311	313	314	314	316	315	315	306.7
25	300		315	316	319	318	317	319	318	313	315	314	306.7
26	283		320	322	322	316	316	318	316	318	316	315	306.8
27	289		321	329	322	318	326	334	337	320	329	333	312.5
28			330	332	335	331	329	328	324	327	327	335	318.5
				286.2	287.1	287.9	290.4	290.7	289.5	289.4	289.5	287.4	278.8

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40′.0 + THE NUMBERS IN THE TABLE.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	10.4	10.5	10.4	10.2	10.1	9.6	8.1	6.7	7.1	7.9	10.4	11.6	—
2	10.5	10.5	10.2	10.1	9.8	9.4	8.6	7.8	8.4	9.5	10.9	12.4	—
3	10.6	10.5	10.5	10.2	10.1	9.8	9.1	8.4	8.4	9.2	10.6	12.1	—
4	10.7	10.7	10.5	10.5	10.4	10.2	9.1	8.4	8.6	10.1	11.6	12.4	—
5	11.2	10.8	10.8	10.9	10.6	10.6	10.0	9.4	8.6	8.7	9.6	11.2	—
6	10.4	10.0	9.7	10.1	9.9	9.9	9.7	9.2	9.7	10.5	11.5	13.0	—
7	10.2	10.0	9.8	9.7	9.4	9.5	9.0	8.3	8.4	9.6	10.6	11.3	—
8	10.4	10.5	10.2	10.1	9.8	9.6	8.2	7.8	8.6	10.8	12.2	13.1	—
9	10.4	10.2	10.7	10.4	10.5	10.8	9.1	7.3	10.1	11.3	12.5	13.5	—
10	10.6	10.6	10.4	10.2	10.4	9.2	8.1	7.1	7.1	8.2	9.9	11.7	—
11	10.5	10.6	10.2	10.1	9.7	9.1	7.8	7.9	9.4	10.9	11.8	13.1	—
12	10.4	10.7	10.2	10.4	10.0	9.6	8.6	7.9	8.4	9.8	11.4	12.1	—
13	11.0	10.9	10.7	10.8	10.1	9.1	7.9	7.0	7.0	8.6	10.6	12.0	—
14	10.7	10.8	10.5	10.5	10.2	9.9	9.1	7.6	7.5	9.0	10.5	12.2	—
15	10.9	10.8	10.6	10.5	10.0	9.6	8.7	8.5	9.1	10.6	11.8	12.7	—
16	10.6	10.7	10.4	10.1	10.1	10.4	9.4	8.4	8.9	9.9	10.7	11.0	—
17	11.0	10.7	10.5	10.8	10.6	10.4	10.0	10.4	10.6	11.0	11.2	11.2	—
18	10.4	10.5	10.4	10.2	10.4	10.0	9.4	9.1	9.8	11.4	12.5	12.7	—
19	10.7	10.7	10.5	10.4	10.2	10.2	9.7	9.1	9.9	10.7	11.5	12.4	—
20	9.9	10.1	9.9	9.7	9.1	9.1	8.5	7.9	9.0	10.2	11.2	11.8	—
21	10.5	10.1	9.8	9.9	9.9	9.2	8.7	8.5	9.0	10.0	11.5	12.6	—
22	10.2	10.0	10.2	10.4	9.9	9.4	8.5	8.4	9.7	10.6	11.7	12.4	—
23	10.8	10.7	10.9	10.7	10.9	10.8	10.0	8.1	7.6	8.5	10.2	12.0	—
24	10.5	10.5	10.2	10.2	9.9	9.2	8.5	9.1	9.2	9.5	11.3	12.4	—
25	10.6	10.6	10.4	10.2	10.0	9.8	8.4	7.6	7.9	9.0	11.2	12.5	—
26	10.2	10.4	10.4	10.2	10.1	9.5	8.9	8.9	8.5	9.1	10.0	10.9	—
27	10.4	10.7	10.6	10.2	10.2	10.2	9.6	9.2	8.3	9.7	11.5	12.5	—
28	10.2	10.4	10.2	10.2	10.0	10.2	9.2	9.0	9.2	9.9	10.5	11.2	—
29	10.4	10.7	10.5	10.5	10.2	10.2	9.6	8.2	7.5	7.6	9.0	10.5	-
30	10.2	10.4	10.2	10.4	10.2	10.2	9.6	9.2	9.1	9.9	10.7	11.4	—
31	10.5	10.5	10.6	10.4	10.4	10.4	9.7	8.7	8.6	9.2	10.4	12.1	—
Hourly Means.	10.52	10.51	10.36	10.30	10.10	9.84	8.99	8.36	8.68	9.71	11.00	12.06	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	12.0	11.6	11.6	11.3	11.6	11.5	11.3	10.9	11.0	10.9	10.6	10.4	10.32
2	12.6	12.5	12.0	11.7	11.6	11.8	11.3	11.2	11.0	11.2	11.2	10.9	10.71
3	12.4	12.2	11.8	12.0	11.7	11.4	11.3	11.0	10.9	10.8	10.7	10.7	10.68
4	12.7	12.1	11.7	11.5	11.5	11.5	11.4	11.3	11.2	10.8	10.9	10.9	10.86
5	12.1	11.8	11.5	11.5	11.4	11.3	11.3	11.5	11.4	10.9	10.6	10.6	10.76
6	13.1	12.1	11.8	11.2	11.3	11.4	11.4	10.5	11.3	10.8	10.8	10.9	10.84
7	11.7	11.4	10.6	10.5	10.7	10.8	11.2	10.2	10.6	10.7	10.6	10.4	10.22
8	13.8	13.5	12.0	11.6	11.4	11.4	10.8	10.9	11.0	10.5	10.5	10.5	10.80
9	13.0	11.8	11.2	10.1	10.1	10.6	10.4	10.2	10.2	10.2	10.2	10.6	10.64
10	12.5	12.3	11.5	10.9	10.4	10.5	10.6	10.4	10.1	10.6	10.6	10.6	10.19
11	13.0	12.8	12.0	10.9	10.6	10.6	10.5	10.7	10.7	10.7	10.6	10.9	10.63
12	12.8	12.7	12.2	11.3	10.7	10.5	11.0	11.0	10.9	10.9	10.9	10.9	10.64
13	12.5	12.4	11.8	11.6	11.0	10.8	10.9	10.9	10.8	10.7	10.8	10.8	10.45
14	12.5	12.7	12.5	11.7	10.9	10.9	10.8	10.8	11.2	10.9	10.8	10.9	10.63
15	13.0	13.6	13.3	12.6	12.3	11.8	11.3	10.7	10.9	10.7	10.7	10.7	11.06
16	11.7	11.7	11.4	11.3	11.3	11.0	10.9	11.2	11.0	10.9	10.9	10.8	10.61
17	11.4	11.3	11.3	11.4	11.0	10.7	10.7	10.6	10.8	10.7	10.5	10.5	10.80
18	12.5	12.0	11.6	11.4	11.4	11.2	10.8	10.9	10.8	10.5	10.6	10.8	10.89
19	12.2	11.4	11.4	11.0	10.7	10.5	10.5	10.5	10.4	10.2	10.2	10.2	10.63
20	12.6	12.5	12.4	11.7	11.4	11.4	11.4	11.4	10.8	10.9	9.6	11.4	10.58
21	12.6	12.1	11.4	11.4	10.6	11.3	10.9	10.7	10.6	10.5	10.6	10.6	10.55
22	12.3	12.2	11.8	11.6	11.2	11.0	10.9	10.2	10.7			10.4	10.63
23	12.2	12.4	12.3	11.2	10.6	10.4	10.6	10.6	9.9			10.2	10.53
24	12.7	13.2	12.6	11.4	11.7	10.8	10.9	10.8	10.8				10.67
25	12.5	12.1	11.4	11.4	11.4	10.9	10.8	10.6	10.5				10.45
26	10.8	11.2	11.3	10.8	10.4	10.5	10.6	10.8	10.7				
27	12.4	11.7	11.4	11.4	11.3	10.8	10.8	10.8	10				
28	11.7	12.3	12.5	12.2	11.2	10.8	10.8	10.6	10				
29	11.5	11.6	11.5	11.3	10.2	10.5	10.4	10.2	9				
30	11.4	11.5	11.4	11.4	11.0	11.0	10.7	10.7					
31	12.5	12.4	12.1	11.4	10.8	10.7	10.5	10.6					
Hourly Means.	12.35	12.16	11.78	11.38	11.08	10.98	10.89	10.7					

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	180	178	184	185	193	196	200	211	223	227	223	215	—
2	181	180	186	188	192	191	196	205	214	223	229	228	—
3	186	186	188	188	191	193	197	201	212	220	224	227	—
4	194	196	196	198	199	199	201	210	224	239	244	242	—
5	191	196	199	198	200	204	209	225	236	241	243	241	—
6	188	168	177	172	187	192	190	201	219	224	225	212	—
7	187	189	172	170	183	183	179	192	204	214	216	212	—
8	186	191	193	192	193	197	204	217	227	230	229	220	—
9	186	196	185	198	180	169	182	193	205	216	208	192	—
10	179	177	180	182	183	185	191	203	214	221	222	224	-
11	185	180	199	191	191	190	196	213	227	226	223	214	—
12	192	178	177	181	182	183	189	205	224	228	228	225	—
13	180	182	183	186	190	191	192	201	215	221	226	220	—
14	183	194	194	190	187	186	194	203	212	214	212	211	—
15	173	177	177	182	190	190	199	212	229	232	236	227	—
16	183	184	194	192	187	203	200	198	214	211	212	207	—
17	176	170	175	174	172	174	180	186	195	198	205	201	—
18	185	184	185	185	188	189	193	201	215	220	218	218	—
19	182	184	191	187	189	190	195	208	212	217	221	213	—
20	177	177	187	193	206	201	229	256	253	249	258	245	—
21	175	182	181	182	184	185	196	205	220	222	223	214	—
22	173	196	176	178	183	185	190	206	218	225	225	222	—
23	176	174	177	182	188	196	197	212	226	233	238	233	—
24	181	183	188	190	193	185	186	205	210	220	220	208	—
25	163	179	180	179	179	181	191	205	216	229	225	220	—
26	177	179	182	182	186	187	191	204	228	239	236	234	—
27	178	181	182	183	184	189	190	204	219	229	232	232	
28	176	172	177	181	182	183	189	201	219	228	224	219	—
29	177	177	182	183	187	191	195	208	219	228	226	220	—
30	187	187	189	189	190	192	193	202	215	225	226	222	—
31	186	187	188	189	191	193	201	209	225	237	239	234	—
Hourly Means.	181.4	182.7	184.6	185.5	188.1	189.5	194.7	206.5	219.0	225.4	226.3	221.0	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	209	199	192	181	176	173	179	179	182	182	180	175	192.6
2	219	206	197	185	177	175	179	182	185	182	185	184	194.5
3	222	210	201	196	194	192	191	186	189	191	191	194	198.8
4	233	216	204	196	191	189	188	178	185	188	187	190	203.6
5	234	216	208	206	208	205	194	186	183	183	197	191	208.1
6	209	205	199	191	187	180	167	162	159	165	175	176	188.8
7	204	196	183	182	179	178	169	172	175	177	182	181	186.6
8	206	183	191	185	181	148	182	185	181	172	170	180	193.5
9	189	180	174	169	153	149	157	167	162	182	172	170	180.6
10	205	201	191	181	173	170	180	186	187	182	182	187	191.1
11	206	194	191	190	185	185	182	182	185	185	186	178	195.2
12	213	201	197	191	189	182	179	179	182	180	180	180	193.5
13	210	206	199	192	188	185	183	182	185	183	179	179	194.1
14	203	192	187	183	182	179	183	177	167	168	171	174	189.4
15	221	198	161	173	179	172	167	172	172	178	180	178	190.6
16	192	178	187	178	171	158	163	163	170	164	169	172	185.4
17	190	187	186	180	180	182	181	180	180	183	181	180	183.2
18	209	194	187	183	183	182	182	180	182	182	182	182	192.0
19	207	199	189	188	191	191	186	186	188	187	192	186	195.0
20	227	201	196	183	182	181	182	174	178	170	167	148	200.8
21	210	193	190	177	175	153	144	166	170	171	191	182	187.1
22	209	197	190	186	185	179	169	181	162	170	178	185	190.3
23	221	209	186	184	178	177	177	169	190	176	182	186	194.5
24	193	166	156	143	153	171	165	169	163	174	170	164	181.5
25	216	202	192	183	178	177	176	176	172	172	177	175	189.3
26	221	211	188	188	191	192	191	189	177	182	172	161	195.3
27	215	200	191	184	182	182	182	177	164	165	170	178	191.4
28	201	186	176	172	182	182	177	177	173	176	177	174	187.7
29	229	191	182	180	181	184	185	182	181	186	183	185	193.4
30	208	193	187	188	190	190	190	185	186	187	187	185	195.5
31	221	205	196	195	192	192	189	185	183	182	183	188	199.6
Hourly Means.	211.4	197.3	188.8	183.6	181.8	178.5	178.0	177.9	177.4	178.2	179.9	179.0	192.4

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

MARCH.	Mean Batavia Time. 1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	296	296	291	288	282	285	288	276	262	247	239	247	—
2	291	289	285	283	281	285	284	276	262	246	237	241	—
3	288	288	288	287	285	285	284	276	265	259	247	243	—
4	284	284	283	284	284	285	285	276	261	239	236	246	—
5	280	278	278	278	278	275	278	288	280	265	261	255	—
6	299	311	308	308	295	287	299	294	273	262	259	265	—
7	297	296	309	310	300	301	302	292	278	262	259	263	—
8	294	290	291	293	292	294	294	280	268	256	253	260	—
9	285	281	290	283	295	304	302	284	261	249	249	257	—
10	279	279	280	279	279	284	285	278	263	247	239	235	—
11	285	288	275	282	284	290	289	273	258	249	248	254	—
12	288	295	297	293	292	294	296	290	268	256	253	257	—
13	300	298	296	295	294	298	300	291	271	253	248	255	—
14	296	289	289	292	294	296	296	294	275	251	240	241	—
15	300	299	298	295	291	292	288	275	253	244	243	250	—
16	296	296	293	293	297	289	293	302	284	273	274	274	—
17	304	309	307	308	307	307	305	299	288	280	277	285	—
18	303	304	304	303	301	302	301	284	268	257	260	265	—
19	296	294	291	295	295	295	296	286	275	271	265	269	—
20	306	304	295	292	286	289	276	263	260	247	240	252	—
21	296	295	294	294	293	295	290	296	286	273	268	268	—
22	310	311	308	309	306	308	303	281	263	257	254	257	—
23	300	302	299	299	294	291	300	299	282	263	249	252	—
24	303	300	298	297	297	306	307	293	277	267	260	265	—
25	315	303	304	306	308	310	307	293	277	257	252	259	—
26	306	306	304	303	303	305	305	296	284	271	263	275	—
27	316	313	311	312	312	310	311	301	279	264	268	274	—
28	319	320	314	313	313	312	311	300	284	278	279	284	—
29	316	315	314	310	310	311	315	315	308	295	284	281	—
30	314	312	311	311	310	310	310	306	295	284	279	288	—
31	316	317	315	315	313	312	315	312	295	278	271	275	—
Hourly Means.	299.3	298.5	297.4	297.1	295.8	297.0	297.3	289.3	274.3	261.3	256.6	261.0	—

MARCH.	Mean Batavia Time. 1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	256	266	275	284	287	289	288	289	286	285	289	294	278.5
2	259	272	282	289	291	291	291	288	287	289	289	289	278.2
3	247	259	272	280	285	286	289	290	287	286	286	285	277.0
4	259	279	291	295	291	286	289	292	286	284	284	283	277.8
5	265	287	296	293	295	295	301	303	306	303	296	297	284.6
6	277	286	298	306	303	306	313	316	312	310	301	301	295.4
7	274	290	301	304	302	300	307	310	301	299	295	295	293.6
8	272	294	296	303	303	316	296	289	293	300	300	291	288.3
9	267	284	293	298	306	299	294	287	292	278	284	288	283.8
10	257	272	288	295	296	297	289	286	289	289	289	285	277.5
11	262	273	291	299	297	295	297	295	295	294	294	297	281.8
12	268	282	291	301	306	306	303	304	301	303	302	301	289.5
13	263	272	280	288	292	296	298	297	296	298	301	300	286.7
14	257	270	280	293	300	300	299	300	306	306	303	301	286.2
15	259	277	305	303	301	303	310	298	303	300	296	299	286.8
16	286	300	297	303	310	317	311	310	307	310	310	307	297.2
17	295	300	303	306	307	307	306	308	305	305	306	306	301.3
18	278	291	303	305	298	299	298	297	297	297	297	297	292.0
19	279	290	300	303	300	297	300	299	296	297	295	294	290.8
20	268	282	284	295	297	300	300	301	300	302	307	316	285.9
21	285	303	306	311	316	322	330	314	310	308	298	302	298.0
22	268	284	292	294	301	304	310	302	313	308	301	296	292.9
23	270	284	304	310	310	308	309	311	302	308	306	300	293.8
24	281	307	318	330	323	311	313	311	315	315	311	315	300.8
25	275	288	295	300	308	310	310	310	311	310	309	308	296.9
26	293	301	316	319	315	314	315	316	323	323	326	327	304.5
27	291	307	311	314	317	315	316	320	329	328	325	316	306.7
28	293	307	318	325	321	316	319	321	321	320	316	317	309.2
29	291	304	310	316	319	315	315	318	318	316	315	315	309.4
30	303	310	316	316	317	315	315	318	320	319	316	316	308.8
31	296	309	317	319	320	316	318	319	320	319	319	314	309.2
Hourly Means.	274.0	288.1	297.7	303.1	304.3	304.2	304.8	303.8	304.1	303.5	302.1		

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	10.1	10.2	10.1	10.0	9.6	9.5	8.6	8.3	8.5	10.2	10.9	11.9	—
	2	9.9	10.0	9.9	10.0	9.8	9.4	8.7	7.9	8.0	9.0	9.6	10.1	—
	3	10.0	10.0	9.9	10.0	9.6	9.5	9.3	8.5	9.5	10.0	11.5	11.0	—
	4	10.3	10.3	10.0	10.0	10.3	9.9	9.5	8.7	8.4	9.8	10.6	10.8	—
	5	9.8	9.5	10.3	10.0	9.8	10.6	9.8	8.6	8.5	9.6	10.4	10.6	—
	6	10.2	10.0	11.0	10.2	9.9	10.8	10.0	9.9	9.5	10.2	11.1	11.0	—
	7	10.7	10.2	10.0	10.7	10.2	10.7	9.4	8.5	10.1	10.0	11.1	11.7	—
	8	10.4	10.6	10.6	10.7	10.4	10.1	9.1	8.3	8.3	8.7	10.7	10.7	—
	9	9.8	10.8	10.7	10.6	10.0	10.2	9.6	8.1	7.5	8.3	9.5	10.4	—
	10	10.3	10.3	10.3	10.4	10.0	9.8	9.2	8.3	8.0	9.2	10.6	11.6	—
	11	10.4	10.8	10.9	10.7	10.3	10.2	9.5	7.7	6.6	6.5	7.8	9.0	—
	12	10.4	10.6	10.6	10.6	10.7	10.0	8.7	7.8	6.8	6.7	8.0	9.2	—
	13	10.2	10.4	11.0	10.6	10.4	10.7	9.6	8.8	7.9	8.1	9.0	10.0	—
	14	10.2	10.6	10.2	10.3	10.2	10.2	9.9	8.3	8.0	9.3	10.3	11.1	—
	15	10.0	10.2	10.1	10.1	10.2	10.2	9.4	9.3	9.4	9.4	11.0	11.1	—
	16	10.2	10.2	10.1	10.0	9.8	9.6	9.0	8.5	9.0	9.8	10.1	10.0	—
	17	10.1	9.9	9.8	9.5	9.4	10.1	9.6	9.1	8.1	8.4	8.8	9.1	—
	18	10.3	10.1	10.0	10.1	10.0	10.0	10.2	9.2	8.8	8.8	9.0	9.4	—
	19	10.1	10.2	10.2	9.9	9.9	10.1	10.1	9.6	9.5	10.2	11.0	11.0	—
	20	10.1	10.2	10.3	10.2	10.3	10.2	10.1	9.6	9.2	9.6	10.0	11.2	—
	21	9.9	10.1	10.0	10.1	9.9	10.0	9.9	9.3	9.3	9.9	9.8	11.4	—
	22	10.0	10.3	10.0	10.1	10.0	10.1	9.5	8.1	7.8	7.9	8.7	9.9	—
	23	10.2	10.3	10.1	10.1	9.6	10.2	10.0	9.4	8.7	8.8	9.9	10.1	—
	24	10.0	10.3	10.2	10.6	10.2	10.1	10.1	8.8	7.6	8.4	9.3	10.4	—
	25	10.0	10.2	10.3	10.2	10.0	10.1	9.4	8.8	8.6	8.6	9.5	10.6	—
	26	9.9	10.0	10.0	10.1	9.9	10.2	10.1	9.9	9.8	10.0	10.0	10.0	—
	27	10.0	10.0	10.0	10.0	9.9	10.0	9.9	9.1	8.7	9.4	10.3	10.7	—
	28	10.1	10.2	10.1	10.2	10.0	10.1	9.9	9.0	8.8	9.8	9.9	9.6	—
	29	9.3	10.7	10.8	11.2	11.4	11.1	10.8	9.8	8.8	8.7	9.5	10.3	—
	30	10.0	10.2	10.0	10.4	10.7	10.7	10.9	9.4	8.0	8.4	9.1	9.2	—
Hourly Means.		10.10	10.25	10.25	10.25	10.08	10.15	9.66	8.82	8.52	9.06	9.90	10.44	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	11.0	11.4	11.6	11.5	10.6	9.8	9.9	9.6	9.4	9.8	9.8	9.9	10.09
	2	9.9	9.9	10.6	10.7	10.7	10.0	10.0	10.0	10.0	10.0	10.0	10.1	9.76
	3	11.1	11.8	10.8	10.9	10.4	10.1	10.6	10.8	10.0	10.6	10.3	10.3	10.27
	4	10.2	9.8	11.0	11.1	10.9	10.6	10.2	10.3	10.0	10.0	10.3	10.2	10.13
	5	10.1	10.4	11.4	10.7	10.3	10.3	9.8	9.6	9.3	10.0	10.1	10.2	9.99
	6	10.8	9.8	10.7	10.8	10.6	10.2	9.2	10.1	9.9	9.8	10.1	10.1	10.25
	7	11.5	12.0	11.4	10.6	9.9	10.3	10.1	10.0	9.4	10.0	10.0	10.3	10.37
	8	10.8	10.4	10.3	10.3	10.2	10.1	10.0	9.6	10.0	10.0	10.0	10.1	10.02
	9	11.1	11.8	11.8	10.7	9.9	10.4	10.2	9.9	9.9	9.6	10.0	9.9	10.03
	10	11.7	11.8	11.5	11.4	10.6	10.0	10.0	10.0	9.9	9.9	10.1	10.0	10.20
	11	10.0	11.1	11.7	11.4	10.1	10.4	10.2	10.4	10.0	9.8	10.1	10.3	9.83
	12	11.2	12.3	12.4	11.6	10.6	10.3	10.1	10.1	10.3	10.1	10.1	10.2	9.98
	13	10.1	11.1	11.2	11.2	11.0	10.6	10.6	10.2	10.2	10.3	10.3	10.3	10.16
	14	11.5	11.2	11.2	11.5	10.9	10.7	10.6	10.1	9.9	10.0	10.0	10.0	10.26
	15	11.9	11.1	11.1	11.4	11.1	10.3	10.0	10.1	10.0	10.0	10.0	10.1	10.31
	16	11.0	10.7	10.9	11.1	10.8	10.2	10.0	10.1	9.9	9.9	10.0	10.0	10.04
	17	9.0	10.2	10.7	11.1	10.7	10.6	10.8	10.2	10.0	10.1	9.5	10.2	9.79
	18	10.6	10.9	11.2	11.0	10.8	10.3	10.2	10.1	10.1	10.1	10.0	10.1	10.05
	19	11.1	11.1	10.8	10.8	10.4	10.1	10.0	10.2	10.0	10.1	10.0	10.1	10.27
	20	10.9	11.6	11.7	11.2	10.7	10.7	10.0	10.0	9.9	9.9	10.0	10.1	10.32
	21	11.1	11.5	11.8	12.3	11.5	11.0	9.5	10.3	9.6	9.9	9.9	10.0	10.33
	22	10.0	10.2	10.1	10.6	10.8	10.9	10.2	9.6	10.1	9.6	9.9	10.0	9.77
	23	10.6	11.1	11.1	10.9	10.3	10.3	10.0	10.0	10.0	10.0	10.0	10.0	10.07
	24	10.6	9.9	10.2	11.0	10.7	10.8	10.3	10.1	9.9	10.0	10.0	10.1	9.98
	25	11.2	11.7	12.3	12.5	11.7	12.3	11.0	10.3	10.3	10.0	9.9	10.0	10.40
	26	9.9	9.9	10.0	10.2	10.8	10.3	10.1	10.0	9.9	10.0	9.9	10.0	10.04
	27	10.7	10.8	10.8	10.7	10.4	10.3	10.0	10.0	9.9	9.8	9.9	10.0	10.05
	28	9.8	10.0	10.0	10.0	10.0	10.0	9.8	9.5	10.0	10.0	9.5	9.8	9.84
	29	9.9	10.4	10.9	11.5	11.2	10.4	10.0	10.0	9.6	9.5	9.6	10.2	10.23
	30	9.3	9.6	10.3	11.1	10.9	10.3	10.0	9.8	9.6	9.9	9.4	10.0	9.88
Hourly Means.		10.62	10.85	11.05	11.06	10.65	10.42	10.11	10.03	9.90	9.96	9.96	10.09	10.09

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0. 36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	199	203	203	205	210	211	216	228	241	246	251	243	—
	2	202	209	214	214	216	220	214	213	213	210	207	206	—
	3	194	188	192	191	209	204	218	243	235	238	227	229	—
	4	175	175	179	184	184	185	194	203	215	223	229	227	—
	5	178	189	177	182	181	197	199	208	222	222	219	216	—
	6	183	193	179	196	184	172	194	204	215	227	227	220	—
	7	175	181	186	177	182	180	195	208	172	201	197	175	—
	8	177	181	180	181	184	179	179	180	193	186	190	180	—
	9	187	174	175	199	183	185	185	199	211	221	229	216	—
	10	176	176	177	183	185	184	186	198	210	215	221	214	—
	11	174	174	171	175	180	186	189	200	217	227	217	212	—
	12	156	165	166	169	174	176	179	179	184	200	204	203	—
	13	167	166	176	177	176	175	182	186	195	204	209	201	—
	14	178	180	184	184	185	188	189	201	219	231	235	213	—
	15	190	195	198	210	209	202	203	189	195	222	208	213	—
	16	169	179	182	180	181	185	189	196	207	216	223	216	—
	17	188	183	186	190	191	182	191	197	213	224	228	222	—
	18	170	175	179	179	180	184	190	194	206	217	228	224	—
	19	182	182	186	184	189	191	197	203	210	215	224	223	—
	20	181	186	188	189	193	195	207	216	233	241	239	213	—
	21	181	180	183	184	189	188	193	208	220	227	236	230	—
	22	180	184	186	186	188	187	196	202	209	218	223	217	—
	23	175	184	180	185	184	203	202	194	204	214	201	203	—
	24	184	185	184	186	190	190	184	194	201	197	213	203	—
	25	174	175	183	184	188	191	203	218	222	234	235	230	—
	26	168	172	173	170	178	180	184	186	189	194	201	200	—
	27	190	190	189	190	192	194	199	212	231	236	245	234	—
	28	192	195	194	193	198	201	207	214	227	234	240	233	—
	29	175	166	160	151	171	176	174	182	172	186	186	165	—
	30	169	169	174	175	178	178	174	178	193	198	199	199	—
														—
Hourly Means.		179.6	181.8	182.8	185.1	187.7	189.0	193.7	201.1	209.1	217.5	219.7	212.7	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	230	217	209	207	205	204	201	203	203	202	203	201	214.2
	2	205	194	179	181	180	181	179	178	184	185	185	186	198.1
	3	223	193	201	199	193	184	164	147	149	149	156	175	195.9
	4	213	209	199	188	189	188	190	197	195	195	194	183	196.4
	5	193	146	128	139	160	166	168	149	143	156	167	173	178.3
	6	180	169	158	176	170	172	182	154	152	151	159	167	182.7
	7	159	133	138	144	148	156	158	158	178	164	174	166	171.0
	8	176	163	168	172	175	174	178	179	178	180	172	184	178.7
	9	184	162	165	166	166	162	165	166	167	172	168	181	182.8
	10	189	165	169	173	171	176	176	172	179	174	165	186	184.2
	11	185	179	165	162	157	132	128	108	122	148	147	151	171.1
	12	201	191	177	168	173	169	175	177	174	178	167	167	178.0
	13	194	186	177	173	171	171	175	179	179	175	175	178	181.1
	14	196	191	178	175	175	168	164	172	179	185	183	187	189.2
	15	181	170	173	151	154	165	175	172	167	171	161	165	185.0
	16	194	199	197	182	182	186	186	183	180	180	179	183	189.8
	17	209	198	185	179	172	172	145	135	157	156	164	163	184.6
	18	191	167	165	168	177	183	180	175	176	175	176	178	184.9
	19	219	204	200	192	189	189	185	184	181	183	180	181	194.7
	20	212	202	187	180	180	178	183	178	180	180	184	183	196.2
	21	218	204	198	173	167	163	181	169	177	175	177	178	191.6
	22	208	198	192	188	189	172	182	182	165	181	185	182	191.7
	23	207	198	191	184	182	177	175	174	177	178	179	189	189.2
	24	186	192	185	182	174	165	161	169	169	165	175	177	183.8
	25	226	215	201	159	146	133	137	153	144	141	153	164	183.7
	26	197	193	195	189	183	184	184	184	184	184	187	184	185.1
	27	222	209	202	197	197	193	194	192	193	191	190	189	203.0
	28	231	225	228	195	202	191	190	190	158	141	141	140	198.3
	29	165	158	136	127	134	149	156	160	160	155	163	165	162.2
	30	195	189	181	169	162	168	167	172	173	168	170	165	177.6
Hourly Means.		199.6	187.3	180.9	174.6	174.1	172.4	172.8	170.4	170.8	171.3	172.6	175.7	186.8

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	315	313	313	311	310	310	311	306	287	274	265	272	—
	2	296	291	286	285	284	284	287	296	285	282	279	282	—
	3	295	298	296	299	287	290	286	264	253	246	258	264	—
	4	302	303	303	302	302	303	300	293	278	271	269	279	—
	5	311	307	316	311	311	303	303	296	287	282	284	289	—
	6	298	294	305	299	306	309	305	303	296	281	283	295	—
	7	309	302	305	312	310	311	308	307	318	296	289	302	—
	8	318	316	318	318	320	324	329	321	307	296	294	305	—
	9	317	326	325	310	321	322	326	313	300	296	277	272	—
	10	318	317	315	314	312	315	315	311	295	282	278	290	—
	11	323	323	327	327	325	325	328	327	316	298	293	289	—
	12	329	325	327	327	324	327	330	326	311	299	293	302	—
	13	332	330	326	325	328	328	330	328	320	305	299	307	—
	14	323	323	323	325	324	323	325	323	306	295	289	303	—
	15	323	321	319	314	314	318	322	334	324	305	311	310	—
	16	332	327	325	327	327	325	325	300	284	272	272	279	—
	17	313	317	315	312	314	315	318	321	305	292	286	294	—
	18	315	314	312	314	315	311	311	301	291	280	276	279	—
	19	308	307	307	308	307	304	304	303	299	291	285	283	—
	20	309	309	308	308	307	306	302	303	302	295	292	302	—
	21	315	315	312	312	312	311	312	307	291	273	266	275	—
	22	314	312	311	312	313	314	318	312	301	289	282	286	—
	23	316	310	312	309	311	300	308	317	311	297	295	294	—
	24	314	312	314	312	311	313	323	321	307	298	278	284	—
	25	320	318	312	314	312	313	312	302	296	283	280	281	—
	26	317	315	316	317	314	311	310	305	303	299	296	300	—
	27	319	318	318	318	318	313	317	312	299	287	279	291	—
	28	321	319	318	319	318	313	313	302	292	290	293	293	—
	29	319	318	325	330	318	316	324	327	320	319	310	319	—
	30	322	321	319	318	318	317	322	332	321	302	298	303	—
Hourly Means.		315.4	314.0	314.3	313.6	313.1	312.5	314.1	310.4	300.5	289.2	285.0	290.8	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	309	318	317	319	322	318	315	309	306	302	299	298	305.0
	2	289	296	299	295	298	303	302	303	300	300	299	299	292.5
	3	273	294	294	299	303	309	318	327	322	321	313	301	292.1
	4	296	300	302	309	310	311	311	312	307	307	306	314	299.6
	5	305	325	326	322	312	308	310	318	321	316	305	300	307.0
	6	321	327	319	307	315	317	315	327	332	326	321	312	308.9
	7	318	333	333	335	334	330	333	328	321	327	322	325	317.0
	8	318	325	318	318	321	325	323	325	325	325	328	321	318.3
	9	298	311	315	322	325	327	325	326	325	321	326	316	314.3
	10	312	324	325	329	333	329	328	330	327	330	330	319	315.8
	11	296	302	318	333	339	359	354	361	356	338	337	334	326.2
	12	303	312	323	333	339	340	336	335	336	336	337	335	324.4
	13	315	318	318	327	331	335	332	335	332	332	329	325	324.5
	14	309	312	324	328	330	335	335	335	329	325	325	325	320.6
	15	329	334	332	345	341	335	331	331	334	332	338	335	326.3
	16	296	299	298	308	315	315	316	318	319	318	319	317	309.7
	17	306	299	306	313	321	324	337	344	325	322	322	320	314.2
	18	298	317	319	318	312	309	312	316	317	315	313	311	307.3
	19	289	299	307	312	317	317	317	318	317	315	314	312	305.8
	20	302	303	317	328	324	323	321	323	323	322	316	314	310.8
	21	286	298	308	328	332	331	323	325	323	323	318	316	308.8
	22	298	307	311	309	311	325	319	318	324	317	309	312	309.3
	23	296	298	307	316	321	322	323	327	323	320	317	312	310.9
	24	301	299	307	310	318	329	332	330	328	329	322	318	312.9
	25	282	288	306	330	340	346	340	331	334	333	329	319	313.4
	26	310	316	316	318	323	324	324	324	324	324	323	323	314.7
	27	302	310	317	323	323	327	326	328	326	326	325	323	314.4
	28	301	307	312	323	327	333	330	331	344	350	349	345	318.5
	29	315	311	325	328	329	328	324	324	325	330	325	323	322.6
	30	302	308	317	327	334	336	336	334	334	337	333	334	321.9
Hourly Means.		302.5	309.7	314.5	320.4	323.3	325.7	324.9	326.4	325.3	324.0	321.6	318.6	312.9

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40'.0 + THE NUMBERS IN THE TABLE.

MAY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	10.1	10.2	10.4	10.5	10.5	10.7	10.1	9.5	8.3	8.4	8.8	9.3	—
2	10.1	11.0	10.1	10.7	10.1	10.5	9.9	8.4	7.3	7.6	7.9	8.3	—
3	10.4	11.0	12.0	11.2	11.2	11.2	10.5	10.3	10.1	8.9	8.9	9.1	—
4	10.3	10.7	10.4	10.8	10.9	10.7	10.2	9.2	9.2	10.1	9.9	9.1	—
5	10.1	11.7	11.2	11.3	10.5	10.8	11.2	11.2	10.1	10.1	10.2	11.0	—
6	10.1	10.4	10.8	10.9	10.3	11.1	11.6	10.9	9.9	9.1	8.8	8.8	—
7	10.1	10.2	10.2	10.4	10.4	10.9	10.5	9.7	9.1	9.7	9.4	9.6	—
8	10.1	10.3	10.7	10.8	10.5	11.1	11.1	8.9	8.3	8.0	8.3	9.1	—
9	10.1	10.5	10.4	10.8	10.8	11.1	10.9	9.9	8.9	8.9	9.7	10.1	—
10	10.3	10.5	10.3	10.5	10.4	10.7	10.1	8.6	7.7	7.9	8.7	9.9	—
11	10.1	10.4	10.3	10.4	10 2	10.4	10.3	9.1	7.9	8.0	8.6	9.2	—
12	10.1	10.3	10.3	10.4	10.4	10.8	11.2	10.1	9.4	8.9	8.5	8.0	—
13	10.0	9.9	10.0	9.3	9.4	10.3	10.5	11.2	10.4	8.9	8.7	9.1	—
14	9.9	10.4	10.1	10.5	10.4	10.8	10.3	9.5	8.5	8.3	8.7	9.2	—
15	10.1	10.4	10.7	10 4	10.1	10.7	10.7	10.0	8.9	8.9	8.8	9.3	—
16	10.1	10.5	10.5	10.4	10.3	10.8	10.7	9.5	8.7	8.5	8.5	8.8	—
17	10.0	10.0	10.0	10.0	9.9	10.3	10.3	10.0	9.5	9.5	9.7	10.4	—
18	9.9	10.2	10.2	10.4	10.3	10.8	11.3	10.1	8.9	7.9	8.0	8.7	—
19	10.0	10.2	10.1	10.2	10.1	10.4	10.7	9.9	8.7	9.1	8.3	9.2	—
20	10.1	10.0	9.9	10.1	10.1	10.4	11.2	10.1	9.1	8.4	8.0	8.5	—
21	10.0	10.0	10.0	10.0	10.1	10.2	10.5	10.2	9.6	9.4	8.8	8.8	—
22	10.0	10.0	10.1	10.1	10.1	10.4	10.3	9.6	8.4	7.8	7.3	7.5	—
23	10.0	10.0	10.0	10.2	10.4	10.3	10.3	9.5	9.1	8.9	9.1	9.2	—
24	10.5	10.1	10.5	10.7	10.7	10.9	10.7	10.3	10.2	10.8	9.9	9.7	—
25	9.9	10.1	10.5	10.3	10.5	11.1	11.6	10.5	9.9	9.4	8.9	9.6	—
26	10.2	10.1	10.2	10.5	10.5	10.9	11.5	11.2	10.3	10.0	9.1	9.1	—
27	10.2	10.8	11.2	11.2	11.2	10.1	11.5	11.0	9.9	8.7	8.5	8.8	—
28	10.2	10.4	10.2	10.3	10.7	10.5	11.2	11.2	10.4	10.4	9.7	9.5	—
29	10.1	10.1	10.2	10.5	10.3	10.8	11.5	10.9	10.0	9.7	8.9	8.7	—
30	10.1	10.1	10.1	10.0	9.9	10.3	11.1	10.7	10.2	9.4	9.2	9.5	—
31	9.7	10.1	9.9	9.7	9.9	10.3	10.9	10.1	9.6	9.7	10.0	9.7	—
Hourly Means.	10.09	10.34	10.37	10.44	10.36	10.65	10.79	10.04	9.24	9.01	8.90	9.19	—

MAY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	9.4	10.1	10.5	11.2	11.1	10.1	10.1	10.0	9.6	9.4	10.0	10 1	9.93
2	10.1	12.5	12.7	12.4	11.2	10.7	10.3	10.2	9.4	9.5	9.7	10.1	10.03
3	9.1	10.1	11.6	12.4	11.5	10.4	9.6	10.1	10.1	9.6	10.1	10.1	10.40
4	9.7	10.8	11.0	11.5	11.1	10.3	10.1	10.1	9.4	9.9	9.9	10.1	10.23
5	10.7	11.2	11.3	11.5	11.2	10.2	10.2	10.0	10.0	10.1	10.0	10.1	10.66
6	8.9	9.6	10.2	10.7	10.4	10.2	10.1	9.9	10.0	10.1	9.7	10.1	10.11
7	9.7	10.5	11.1	11.7	11.2	10.2	10.2	10.3	10.1	10.2	10.1	10.1	10.23
8	10.1	10.4	10.4	11.2	11.2	10.3	10.0	10.1	9.9	10.1	10.1	10.2	10.05
9	10.3	11.1	11.3	11.5	10.4	10.1	10.1	10.3	10.1	10.2	10.1	10.3	10.33
10	10.2	10.3	10.5	11.5	11.0	10.1	9.9	9.9	9.6	10.0	9.5	10.1	9.93
11	10.3	10.9	11.2	11.8	11.2	10.5	10.3	10.2	10.0	10.1	10.1	10.1	10.07
12	8.1	9.1	10.3	11.2	10.7	10.1	10.1	10.1	9.5	9.1	9.7	10.1	9.85
13	9.9	11.2	11.2	11.0	11.1	10.1	10.0	10.1	9.3	10.0	9.9	10.1	10.07
14	9.3	9.9	10.7	10.8	11.0	10.2	10.1	8.8	9.3	10.0	9.9	10 2	9.87
15	9.3	10.3	11.5	11.5	11.1	10.1	10.2	10.1	10.0	9.7	10.1	10.1	10.13
16	9.6	10.3	10.4	10.7	10.1	10.0	10 0	9.7	9.7	9.7	9.7	9.7	9.87
17	10.9	11.6	11.7	11.0	10.7	10.4	10.0	9.6	9.4	9.6	9.6	10.1	10.18
18	9.2	9.7	10.1	10.3	10.4	10.2	10.1	10.1	9.4	9.7	9.7	9.6	9.80
19	10.5	11.5	12.0	12.4	11.2	10.3	10.0	10.0	9.9	9.6	9.6	9.9	10.16
20	9.1	9.6	10.4	11.2	11.0	10.2	10.1	10.0	9.9	9.9	10.0	9.9	9.88
21	9.1	9.9	10.3	10.9	11.1	10.3	10.0	9.9	10.0	9.9	10.0	9.9	9.95
22	8.7	10.1	11.5	11.7	11.2	10.4	10.1	10.1	9.7	9.9	9.7	10.0	9.78
23	10.2	10.7	10.9	11.0	10.8	9.7	9.7	9.7	9.6	9.5	10.0	9.9	9.95
24	10.5	10.9	11.5	11.3	10.8	9.9	9.4	9.5	9.4	9.4	8.3	9.5	10.23
25	9.4	10.0	10.0	10.8	10.7	10.2	10.1	10.0	9.9	9.5	9.9	10.0	10.12
26	8.8	8.7	9.1	10.1	10.0	9.6	9.5	9.6	9.3	9.4	9.5	10.1	9.89
27	9.1	10.1	10.3	10.3	10.1	9.3	9.4	9.7	10.0	9.4	9.9	10.3	10.04
28	9.7	10.1	10.1	10.9	10.9	10.3	10.1	9.4	9.9	9.6	9.9	9.9	10.23
29	8.9	9.7	10.4	10.9	10.7	10.4	10.0	10.1	10.0	9.7	10.0	9.9	10.10
30	9.1	9.3	10.0	10.1	10.5	10.1	10.0	10.0	10.0	9.7	9.7	9.7	9.95
31	9.7	10.0	10.2	10.8	10.4	9.7	9.4	9.6	9.6	9.7	10.0	10.1	9.95
Hourly Means.	9.60	10.33	10.79	11.17	10.84	10.15	9.97	9.91	9.74	9.75	9.82	10.01	10.06

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	176	179	180	177	178	184	191	193	203	209	207	198	—
2	168	177	173	174	178	179	193	205	217	235	244	220	—
3	169	168	168	177	178	183	188	174	174	196	201	160	—
4	164	162	170	168	175	179	189	199	193	179	180	183	—
5	168	169	169	171	175	181	184	188	199	198	197	188	—
6	174	169	172	178	184	183	193	200	207	206	212	202	—
7	176	174	177	179	183	188	197	200	209	206	204	203	—
8	174	175	177	184	187	183	191	198	205	207	208	199	—
9	179	181	184	188	188	188	198	200	205	217	215	210	—
10	185	183	188	188	192	193	198	209	223	232	233	227	—
11	175	182	184	184	184	184	190	203	215	223	226	227	—
12	183	182	184	185	186	195	201	210	215	230	241	245	—
13	177	198	193	197	203	188	197	188	188	195	194	190	—
14	176	188	183	181	182	189	198	200	210	214	198	196	—
15	176	179	175	182	175	179	183	196	201	202	204	182	—
16	176	177	179	180	183	184	190	203	206	217	216	201	—
17	185	182	183	180	189	183	196	202	217	221	217	216	—
18	170	174	179	180	184	186	197	210	208	207	202	200	—
19	173	176	179	182	188	194	204	213	234	207	212	204	—
20	174	179	179	173	172	176	181	183	193	198	194	186	—
21	179	180	181	184	186	198	201	203	210	217	215	207	—
22	190	193	197	197	197	201	207	214	217	222	227	221	—
23	171	175	181	185	189	195	203	206	212	214	214	204	—
24	194	199	199	207	215	201	188	193	186	175	178	181	—
25	153	159	159	162	172	178	174	193	194	187	182	171	—
26	179	171	169	171	171	168	182	189	196	207	212	207	—
27	179	169	169	184	184	207	200	210	221	227	226	226	—
28	169	165	188	172	180	183	194	188	202	192	199	179	—
29	174	171	169	176	179	183	197	207	214	219	227	217	—
30	182	181	178	182	191	192	196	196	201	207	211	201	—
31	179	177	181	180	192	193	198	204	208	204	212	188	—
Hourly Means.	175.7	177.2	178.9	180.9	184.5	187.0	193.5	199.3	205.9	208.7	209.9	201.3	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	193	187	182	177	176	179	179	174	173	179	170	169	183.9
2	201	146	136	138	140	135	136	137	151	164	169	169	174.4
3	149	157	150	155	157	151	157	160	160	167	161	169	167.9
4	180	172	172	160	161	161	154	159	168	168	176	172	172.7
5	192	186	175	160	159	164	160	170	168	166	169	169	176.0
6	198	182	183	169	172	174	173	164	156	155	171	170	181.1
7	193	189	184	174	174	176	173	168	164	169	169	171	183.3
8	202	191	182	174	175	175	177	175	183	179	179	181	185.9
9	200	193	193	185	179	179	181	181	180	180	180	185	190.4
10	219	207	195	179	178	182	184	180	175	169	169	172	194.2
11	210	202	189	179	170	170	170	170	174	164	174	181	188.8
12	221	214	215	207	217	203	203	198	198	189	175	176	203.0
13	182	175	175	174	169	170	173	170	177	173	169	169	182.7
14	182	179	169	170	166	167	169	181	175	165	164	163	181.9
15	180	179	178	177	174	168	171	170	173	188	182	178	181.3
16	194	181	181	173	174	171	166	169	170	170	177	182	184.2
17	210	203	188	183	173	170	165	167	172	174	170	168	188.1
18	188	169	156	164	168	169	169	165	169	169	174	175	180.5
19	179	177	179	166	173	172	173	169	172	171	174	173	185.2
20	181	182	179	169	166	167	173	174	174	175	175	178	178.4
21	198	192	188	178	179	186	187	188	188	188	188	188	192.0
22	219	209	197	185	180	181	178	177	176	170	176	176	196.1
23	198	190	186	181	183	190	191	195	193	196	195	198	193.5
24	173	166	143	137	123	120	133	141	147	143	170	150	169.3
25	173	155	145	150	144	151	147	149	147	171	157	160	163.9
26	197	189	166	138	156	163	159	159	160	163	169	179	175.8
27	216	199	189	188	183	186	183	170	171	162	160	163	190.5
28	174	169	164	154	156	151	154	164	164	165	164	163	173.0
29	214	193	179	178	173	173	178	176	168	171	174	179	186.9
30	198	184	185	181	176	178	169	157	162	161	160	166	183.1
31	182	175	173	160	165	174	179	169	160	165	169	172	181.6
Hourly Means.	193.3	183.6	176.6	169.8	169.0	169.5	169.8	169.2	169.9	170.6	171.9	173.0	182.9

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	309	310	310	312	311	304	306	311	309	298	289	291	—
2	318	312	316	316	313	312	311	303	290	275	269	275	—
3	307	308	310	304	308	303	307	314	309	300	297	320	—
4	311	311	307	308	306	304	301	302	303	312	310	309	—
5	316	312	313	313	313	308	308	310	302	300	303	315	—
6	315	318	317	314	312	312	308	313	313	315	318	320	—
7	318	319	318	318	318	315	316	314	309	305	304	305	—
8	317	315	314	311	313	315	319	326	324	317	317	312	—
9	320	319	317	315	316	316	317	307	302	290	289	288	—
10	313	312	310	309	308	307	308	305	300	293	289	292	—
11	314	309	309	308	309	309	310	308	302	291	284	279	—
12	312	312	310	311	311	304	304	313	311	302	298	296	—
13	319	310	312	309	308	312	309	317	323	322	319	317	—
14	320	312	318	319	318	313	314	325	323	318	317	313	—
15	323	322	325	324	325	322	319	311	309	308	303	318	—
16	322	321	320	319	320	318	319	327	327	321	310	309	—
17	320	323	324	324	324	318	313	307	294	286	289	292	—
18	329	327	325	325	324	322	323	331	336	336	334	334	—
19	334	331	330	329	327	323	319	295	287	290	291	279	—
20	309	308	308	311	313	309	306	312	312	314	314	308	—
21	314	313	313	313	313	304	307	292	282	275	284	286	—
22	294	292	291	291	292	289	287	290	291	290	286	277	—
23	305	302	299	296	296	292	291	299	298	294	291	296	—
24	304	301	301	300	296	302	312	308	301	305	305	303	—
25	312	307	307	307	303	301	310	291	299	297	300	295	—
26	293	298	300	300	300	299	293	296	302	303	301	303	—
27	298	303	302	298	298	286	291	296	293	290	294	286	—
28	309	310	298	308	303	297	292	317	313	320	317	323	—
29	320	319	320	317	315	310	307	301	302	301	303	314	—
30	312	312	313	311	307	303	296	297	297	297	301	302	—
31	312	313	312	314	308	307	305	311	307	303	297	311	—
Hourly Means.	313.5	312.3	311.9	311.4	310.6	307.6	307.4	308.0	305.5	302.2	300.7	302.2	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	291	297	297	303	316	320	318	318	319	316	319	320	308.1
2	280	308	315	323	327	327	323	323	317	309	305	305	307.2
3	314	304	303	305	314	322	320	316	315	313	312	308	309.7
4	302	303	307	315	320	324	325	322	318	316	312	311	310.8
5	316	318	322	330	332	330	330	324	324	322	320	318	316.6
6	319	320	326	335	336	334	334	337	338	336	324	325	322.5
7	302	301	297	308	322	325	324	328	329	324	324	319	315.1
8	309	318	317	315	322	327	326	327	324	325	323	320	318.9
9	291	291	297	313	320	321	318	319	318	319	317	314	309.8
10	297	296	298	307	314	319	318	320	321	324	322	316	308.3
11	285	288	294	303	315	322	322	321	319	322	317	313	306.4
12	304	295	286	298	308	319	320	323	320	325	328	322	309.7
13	313	309	308	313	320	325	324	327	327	325	325	325	317.4
14	318	320	324	324	327	333	332	329	327	331	333	330	322.4
15	313	304	305	311	320	330	325	328	325	324	320	322	318.2
16	305	309	316	320	327	332	336	332	332	331	327	323	321.8
17	299	306	320	329	338	339	339	338	333	330	332	332	318.7
18	336	341	345	337	334	337	339	340	340	338	334	331	333.3
19	285	291	293	308	314	317	317	318	316	316	312	309	309.6
20	307	307	308	311	321	324	323	322	322	321	319	315	313.5
21	283	283	289	297	303	307	303	302	301	300	297	297	298.3
22	267	267	274	288	304	310	311	310	310	311	306	305	293.0
23	291	293	294	298	309	312	309	308	309	309	307	302	300.0
24	302	308	317	321	337	338	326	320	317	317	308	318	311.1
25	293	296	295	291	304	308	310	311	311	299	307	305	302.5
26	308	307	312	323	314	313	313	313	313	309	307	301	305.0
27	281	290	300	304	309	313	312	316	317	319	320	316	301.3
28	326	326	324	326	326	331	329	326	324	324	324	324	317.4
29	312	312	315	316	318	323	319	319	323	320	317	314	314.0
30	306	308	312	312	314	319	323	330	324	324	324	320	311.0
31	314	315	318	325	328	326	320	324	329	326	323	320	315.3
Hourly Means.	302.2	304.3	307.4	313.2	319.8	323.5	322.2	322.3	321.4	320.2	318.2	316.1	311.8

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40'.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	10.1	10.3	10.3	10.8	9.8	10.4	11.1	10.1	10.0	9.3	8.9	9.0	—
	2	10.1	9.8	10.1	10.1	10.2	10.7	11.1	10.1	9.1	8.5	8.4	9.0	—
	3	10.2	10.3	10.2	10.3	10.2	10.8	11.4	10.8	9.8	9.4	9.2	9.3	—
	4	10.0	10.1	10.2	10.1	10.1	10.4	11.1	10.8	9.8	9.3	9.1	9.5	—
	5	10.2	10.6	10.4	10.7	10.7	10.7	11.1	10.1	8.9	8.2	8.3	9.4	—
	6	8.6	8.9	9.1	9.4	9.9	10.3	10.7	10.6	10.1	9.0	9.0	8.5	—
	7	10.1	10.0	10.2	10.3	10.1	10.2	10.9	10.3	10.0	9.9	9.8	10.2	—
	8	10.1	10.1	10.1	10.4	10.2	10.8	11.1	10.1	9.5	9.5	9.3	9.0	—
	9	9.9	10.2	10.1	10.3	10.1	10.6	11.2	11.2	9.9	9.2	8.6	8.4	—
	10	10.0	10.1	9.9	10.1	10.0	10.1	10.6	10.4	9.6	9.1	8.7	8.5	—
	11	9.3	10.0	10.0	10.1	10.2	10.6	11.1	10.9	10.0	9.2	8.4	8.7	—
	12	9.9	9.9	9.9	9.9	9.9	10.1	10.2	9.4	9.1	9.2	9.9	9.4	—
	13	10.0	10.1	10.1	10.2	10.1	10.2	10.9	10.9	9.9	9.5	9.5	9.4	—
	14	9.8	9.8	9.6	9.6	9.5	9.8	9.8	9.6	9.2	9.1	9.4	9.5	—
	15	9.8	9.9	9.9	9.9	9.9	10.0	10.8	10.7	10.1	9.1	8.4	8.2	—
	16	9.5	9.6	9.8	9.8	9.9	10.1	10.6	9.9	9.2	9.1	9.0	9.1	—
	17	9.5	9.5	9.8	10.0	10.1	10.2	10.7	10.2	9.9	9.4	9.5	10.0	—
	18	9.3	9.5	9.6	9.9	10.2	10.1	11.1	10.1	9.5	8.7	8.5	8.5	—
	19	10.1	10.1	10.1	10.6	10.3	10.8	11.2	10.4	9.3	8.7	8.4	8.6	—
	20	9.9	10.2	10.4	10.6	10.2	10.4	11.2	10.6	9.6	9.6	9,0	8.5	—
	21	10.0	10.0	10.2	10.4	10.3	11.1	11.2	10.8	9.6	9.2	9.2	9.3	—
	22	9.6	9.9	10.0	10.1	10.8	10.8	11.7	10.4	10.1	9.5	8.7	8.7	—
	23	9.6	11.1	10.1	10.6	10.3	10.8	10.9	10.4	9.8	9.3	8.7	8.4	—
	24	9.8	10.0	9.9	9.9	10.0	10.1	11.1	10.7	10.2	10.1	9.6	9.4	—
	25	9.8	9.8	10.0	10.1	10.0	10.1	10.4	10.1	9.3	9.6	9.5	10.0	—
	26	10.0	10.1	10.1	10.2	10.0	10.1	10.8	10.2	10.1	9.9	9.5	9.6	—
	27	10.0	10.1	10.1	10.2	10.1	10.7	11.8	11.4	10.2	10.0	9.3	9.0	—
	28	10.0	10.2	10.1	10.2	10.1	10.2	10.6	10.0	9.4	9.0	9.2	9.2	—
	29	9.9	10.2	10.1	10.2	10.1	10.2	10.7	10.6	10.0	9.5	9.0	9.1	
	30	9.5	10.0	10.2	10.4	10.2	10.8	10.7	10.6	10.1	9.9	9.6	9.6	—
Hourly Means.		9.82	10.01	10.02	10.18	10.12	10.41	10.93	10.41	9.71	9.30	9.05	9.10	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	9.1	10.4	10.6	11.1	10.2	9.8	10.1	9.9	9.5	9.9	9.9	10.1	10.03
	2	9.5	10.0	10.2	10.4	10.2	10.0	10.0	10.1	10.0	9.6	10.1	10.1	9.89
	3	9.5	9.6	10.0	10.2	10.1	9.8	9.6	9.6	9.6	9.6	9.8	10.0	9.97
	4	10.1	10.2	10.1	10.1	10.0	10.0	9.9	9.9	9.9	9.8	10.0	10.2	10.03
	5	10.8	10.8	11.6	11.2	11.1	12.0	11.9	11.2	9.5	9.6	9.1	8.9	10.29
	6	8.6	9.4	10.3	11.1	10.4	10.1	10.1	9.9	10.0	9.5	9.6	10.0	9.71
	7	10.3	10.8	10.9	10.3	10.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.18
	8	9.1	9.2	9.2	9.5	9.4	9.1	9.3	9.4	9.2	9.6	9.8	10.0	9.71
	9	8.9	9.0	9.4	10.0	10.4	9.5	9.3	9.5	9.5	9.6	9.8	9.9	9.77
	10	9.1	9.4	10.8	10.8	11.2	11.8	10.1	9.4	9.6	9.4	9.4	9.4	9.90
	11	8.7	9.6	10.3	10.4	10.2	9.5	9.9	9.3	9.5	9.3	9.4	9.9	9.77
	12	9.8	10.3	10.4	10.4	10.3	9.8	9.4	9.8	9.5	9.4	9.6	9.8	9.80
	13	9.4	9.9	10.8	10.4	9.9	9.9	9.8	9.8	9.8	9.8	9.9	9.8	10.00
	14	9.8	9.6	10.1	10.6	11.1	10.6	10.0	10.1	9.9	9.9	9.9	9.8	9.84
	15	9.0	9.8	10.2	10.7	10.7	10.0	10.0	10.0	10.0	10.0	9.5	9.5	9.84
	16	9.6	10.8	11.2	11.4	11.1	10.2	10.2	10.1	10.1	9.9	9.8	9.5	9.98
	17	10.3	10.7	10.8	10.9	10.6	10.1	9.9	9.9	9.8	9.8	9.5	9.3	10.02
	18	9.0	9.4	10.0	10.2	10.2	9.5	9.4	9.3	9.0	9.5	9.3	9.6	9.56
	19	9.2	9.6	9.8	10.3	11.1	9.6	10.2	10.1	9.9	9.3	9.5	9.6	9.87
	20	9.0	9.6	10.0	10.2	10.1	9.6	9.5	9.3	9.6	9.3	9.4	9.6	9.81
	21	9.5	9.9	9.8	10.0	10.0	9.3	9.1	9.0	8.9	8.9	9.0	9.3	9.75
	22	9.1	9.8	10.0	9.6	9.5	9.3	9.3	8.5	9.6	9.3	9.4	9.8	9.73
	23	8.4	8.5	10.0	9.6	9.2	9.2	9.3	9.5	9.4	9.4	9.4	9.6	9.65
	24	9.5	9.8	9.8	10.0	9.5	9.6	9.5	9.5	9.4	9.4	9.5	9.6	9.83
	25	10.0	10.3	10.3	10.4	10.0	10.0	9.8	9.6	9.4	9.5	9.6	9.8	9.89
	26	10.1	10.0	10.2	10.4	10.2	9.6	9.4	9.5	9.4	9.5	9.8	9.9	9.94
	27	9.2	9.6	10.1	10.1	10.1	9.4	9.3	9.3	9.3	9.4	9.5	10.0	9.93
	28	9.1	9.6	10.6	10.3	9.6	9.3	9.3	9.3	9.2	9.5	9.5	9.8	9.72
	29	10.0	10.1	10.0	9.8	9.6	9.4	9.4	9.3	9.3	9.3	9.4	9.5	9.78
	30	9.8	10.4	10.8	9.9	9.5	8.6	9.4	9.4	9.5	9.5	9.5	9.9	9.91
Hourly Means.		9.45	9.87	10.28	10.34	10.19	9.82	9.75	9.65	9.58	9.55	9.60	9.74	9.87

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	177	177	189	175	200	200	205	215	209	219	223	215	—
	2	171	187	181	181	181	186	192	200	209	213	211	211	—
	3	173	175	184	181	186	192	199	204	213	218	213	209	—
	4	185	186	190	192	195	197	205	211	216	219	216	210	—
	5	192	190	192	191	194	197	202	210	223	254	255	252	—
	6	123	128	142	142	146	152	170	184	196	215	203	207	—
	7	181	179	180	181	183	186	190	196	207	214	218	216	—
	8	179	183	184	183	187	193	204	212	219	233	227	225	—
	9	185	176	183	185	190	194	200	206	217	223	235	222	—
	10	180	181	182	181	186	190	190	196	188	187	195	188	—
	11	173	178	177	183	184	186	196	200	209	222	218	208	—
	12	181	179	179	181	185	190	196	200	206	214	218	214	—
	13	190	190	190	192	194	192	193	195	201	194	201	193	—
	14	173	175	176	177	179	179	182	183	187	193	196	196	—
	15	174	174	175	176	177	181	186	192	201	205	206	201	—
	16	181	183	183	184	184	188	190	191	194	196	199	201	—
	17	181	181	182	181	182	186	196	203	210	215	215	211	—
	18	189	189	192	184	184	197	202	209	200	203	203	214	—
	19	190	191	196	190	201	212	220	220	216	212	216	205	—
	20	176	179	176	181	184	190	196	196	209	208	199	197	—
	21	185	188	184	189	184	185	196	195	201	204	202	200	—
	22	182	183	184	190	191	202	195	212	200	205	203	181	—
	23	170	166	195	177	181	182	192	202	206	200	202	196	—
	24	169	167	171	175	175	178	189	197	202	202	201	200	—
	25	181	183	181	185	181	184	194	202	215	222	221	213	—
	26	168	174	178	179	183	186	194	200	201	209	208	203	—
	27	185	186	185	187	193	193	201	211	220	218	216	207	—
	28	176	175	174	174	177	178	187	199	207	213	217	211	—
	29	180	176	178	185	183	185	190	195	203	207	213	215	—
	30	186	187	187	190	189	198	206	204	207	210	216	211	—
														—
Hourly Means.		177.9	178.9	181.7	181.7	184.6	188.6	195.3	201.3	206.4	211.6	212.2	207.7	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	208	178	171	162	175	169	169	172	171	168	176	176	187.5
	2	209	199	192	183	183	185	187	181	171	183	171	172	189.1
	3	204	197	195	190	185	186	186	183	183	184	184	182	191.9
	4	203	201	196	193	190	189	189	188	190	192	189	186	197.0
	5	238	212	200	188	148	111	81	92	96	97	99	107	175.9
	6	205	188	181	170	176	176	171	172	172	175	178	178	172.9
	7	209	201	195	187	184	181	182	179	172	171	177	179	189.5
	8	217	208	205	198	199	203	192	187	191	190	190	185	199.8
	9	190	187	180	179	178	180	177	172	178	178	178	178	190.5
	10	188	188	177	158	152	113	154	152	161	161	172	175	174.8
	11	206	196	191	181	174	178	168	177	172	177	179	174	187.8
	12	209	200	187	180	174	176	179	181	175	182	187	188	190.0
	13	189	173	165	167	169	164	166	170	170	169	170	172	182.0
	14	187	184	177	170	167	170	171	170	170	171	173	174	178.3
	15	198	187	176	173	173	176	176	175	176	176	178	179	183.0
	16	195	190	183	180	175	177	176	174	179	179	181	180	185.1
	17	205	199	188	186	183	188	193	183	184	187	187	189	192.3
	18	219	208	196	197	194	199	194	194	204	177	181	187	196.5
	19	185	192	197	185	169	186	159	143	154	170	165	173	189.5
	20	189	183	180	185	183	185	180	181	171	179	182	185	186.4
	21	186	185	173	163	158	164	176	170	171	170	182	184	183.1
	22	176	181	173	164	168	170	167	174	157	164	168	169	181.6
	23	182	176	174	171	167	173	171	168	179	173	171	171	181.0
	24	192	186	185	182	178	174	172	173	175	178	176	178	182.3
	25	202	200	196	190	181	176	171	167	173	169	164	168	188.3
	26	193	190	185	182	183	185	184	178	181	181	181	184	187.1
	27	189	183	185	182	179	180	178	177	175	176	178	179	190.1
	28	203	193	185	186	180	180	181	180	179	178	178	179	187.1
	29	211	203	197	192	184	181	180	179	180	183	183	187	190.4
	30	209	195	196	198	197	196	178	178	172	182	185	179	194.0
Hourly Means.		199.9	192.1	186.0	180.7	176.9	175.7	173.6	172.3	172.7	174.0	175.4	176.6	186.8

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE. 1	298	298	294	300	289	289	289	292	295	288	284	282	—
2	303	295	300	302	302	297	294	292	290	291	289	287	—
3	300	298	294	296	295	289	286	285	282	280	285	281	—
4	296	295	293	294	296	292	287	290	285	284	282	277	—
5	296	296	295	298	297	295	291	279	277	263	258	254	—
6	305	299	291	291	292	288	282	283	289	286	302	293	—
7	294	294	294	294	295	290	288	295	294	294	289	282	—
8	299	297	296	297	294	291	288	299	297	293	304	307	—
9	308	310	305	304	302	298	294	303	303	297	293	293	—
10	308	307	305	306	303	300	300	297	302	302	299	296	—
11	296	294	292	290	290	288	283	282	284	282	282	282	—
12	294	296	295	293	292	286	283	276	269	264	264	278	—
13	292	292	292	290	289	287	286	289	288	291	289	288	—
14	299	297	297	296	296	294	289	284	277	268	268	268	—
15	298	298	298	298	298	294	289	283	282	285	290	288	—
16	291	290	288	288	285	280	277	292	291	289	288	285	—
17	299	298	298	298	297	291	280	264	255	251	253	260	—
18	290	290	288	292	292	286	282	285	286	282	282	270	—
19	290	288	288	291	288	279	277	283	290	294	290	294	—
20	293	289	295	294	294	289	288	289	283	285	291	292	—
21	295	293	295	295	298	298	293	296	297	290	292	287	—
22	292	291	290	289	291	283	289	283	295	291	289	287	—
23	293	294	279	291	291	289	285	291	288	293	291	291	—
24	304	303	302	299	298	298	291	288	293	296	301	301	—
25	297	296	295	293	294	291	287	289	283	275	279	289	—
26	302	298	295	294	293	290	283	278	274	275	277	283	—
27	296	295	295	294	290	287	283	297	295	295	295	297	—
28	311	312	311	310	309	306	299	296	296	291	286	285	—
29	310	311	310	306	307	305	303	292	288	287	283	280	—
30	299	299	299	298	299	295	291	294	295	290	289	291	—
Hourly Means.	298.3	297.1	295.6	296.0	295.2	291.5	287.9	288.2	287.4	285.1	285.5	284.9	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE. 1	285	296	303	308	309	312	310	307	306	307	302	300	297.6
2	290	297	302	304	309	306	304	305	309	302	305	303	299.1
3	285	288	291	296	301	304	304	304	303	302	299	298	293.6
4	282	287	292	298	304	307	306	306	304	302	301	300	294.2
5	268	282	291	295	320	334	347	338	333	328	321	316	298.8
6	284	287	283	288	294	299	304	304	304	302	298	297	293.5
7	280	283	289	302	306	309	307	307	309	309	304	301	296.2
8	307	306	305	309	309	309	314	316	312	310	309	309	303.2
9	310	312	306	307	311	314	314	316	313	312	311	309	306.0
10	291	283	283	298	303	326	307	307	300	302	295	296	300.7
11	281	273	279	290	300	298	302	300	301	299	297	298	290.1
12	280	279	287	293	301	304	302	300	301	298	295	294	288.5
13	281	285	296	298	300	306	304	303	302	303	302	300	293.9
14	271	275	286	290	297	303	301	303	303	301	299	299	290.0
15	285	286	292	299	303	303	299	299	298	296	295	293	293.7
16	287	284	284	292	300	304	304	305	303	302	301	300	292.1
17	272	279	285	287	296	297	295	298	297	294	292	290	284.4
18	260	266	282	284	291	294	298	297	290	304	298	292	286.7
19	300	297	298	304	309	302	312	318	311	299	300	296	295.8
20	295	296	302	302	304	305	304	304	308	303	299	296	295.8
21	299	302	306	311	315	313	303	305	304	303	294	291	299.0
22	286	280	283	292	295	297	300	300	305	301	298	295	291.8
23	290	294	283	291	300	304	307	309	304	307	306	305	294.8
24	307	309	304	305	306	307	306	305	304	303	301	301	301.3
25	295	292	292	300	307	310	310	310	306	307	309	305	296.3
26	285	288	292	296	298	302	299	302	300	299	298	297	291.6
27	299	301	294	302	312	313	313	313	314	314	311	310	300.6
28	282	282	288	303	314	316	313	313	312	311	310	310	302.8
29	285	290	302	309	312	312	310	309	307	304	302	300	301.0
30	288	289	291	292	301	304	312	311	310	303	300	302	297.6
Hourly Means.	287.0	288.9	292.4	298.2	304.2	307.1	307.0	307.1	305.8	304.2	301.7	300.1	295.7

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40'.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	9.9	10.1	10.1	10.2	10.2	10.3	10.2	9.8	9.2	8.9	8.6	8.9	—
	2	9.6	9.8	9.9	9.9	10.1	10.2	10.7	10.2	9.9	9.2	9.2	9.4	—
	3	9.8	9.8	9.9	9.9	9.9	10.0	10.8	10.0	9.2	8.7	8.2	8.6	—
	4	9.6	9.8	9.6	9.6	9.8	10.1	11.1	11.0	10.2	9.2	9.0	9.4	—
	5	9.4	9.8	9.8	10.2	10.1	10.1	10.7	10.2	8.7	8.3	8.1	9.4	—
	6	9.4	9.6	9.5	9.8	9.9	9.9	10.6	10.3	9.3	8.6	8.2	8.4	—
	7	9.1	9.4	9.2	9.0	9.8	10.3	10.7	10.2	9.6	9.8	9.4	9.3	—
	8	7.9	9.4	9.4	9.1	9.3	10.8	11.1	11.7	11.1	11.0	10.0	9.5	—
	9	9.3	9.6	9.6	10.0	10 0	10.1	10.1	10.0	9.0	9.0	9.0	9.8	—
	10	9.5	9.8	9.4	9.8	9.9	10.0	10.2	10.3	9.3	9.1	9.0	9.1	—
	11	9.5	10.1	10.0	9.6	10.1	10.1	10.7	10.3	9.8	9.4	9.8	10.0	—
	12	9.3	9.6	9.5	9.8	9.4	9.9	10.1	9.9	10.0	9.1	9.1	10.0	—
	13	9.1	9.6	9.1	9.4	9.6	9.9	10.6	10.4	9.6	9.3	9.4	9.9	—
	14	9.6	9.0	9.3	9.3	9.6	9.2	10.3	10.2	9.3	9.3	8.7	9.0	—
	15	9.4	9.8	9.9	9.8	9.9	10.2	10.6	10.1	9.3	9.0	8.2	8.2	—
	16	9.3	9.9	10.0	10.0	9.9	10.1	10.7	10.2	9.5	9.8	9.9	10.0	—
	17	9.6	9.9	10.0	10 1	9.9	10.2	10.9	10.3	9.3	8.9	8.4	9.2	—
	18	10.0	10.1	10.1	10.4	10.4	10.9	10.8	10.3	9.5	8.7	8.5	8.9	—
	19	9.9	11.2	10.1	11.0	11.1	11.1	11.7	10.1	9.5	9.1	8.7	9.1	—
	20	9.4	10.1	9.9	10.3	10.6	10.6	10.8	10.0	9.3	9.1	9.0	9.3	—
	21	9.5	10.1	10.1	10.1	10.6	10.8	10.9	10.0	8.5	8.2	8.4	8.7	—
	22	9.5	9.8	9.6	9.9	10.0	10.1	10.9	10.2	9.0	7.9	8.1	8.1	—
	23	9.5	9.6	9.5	9.5	9.8	10.1	10.6	9.5	8.4	7.4	7.4	8.2	—
	24	9.5	9.6	9.9	10.1	10.2	10.1	11.4	11.0	9.6	8.4	7.3	7.4	—
	25	9.5	9.6	9.6	9.6	9.9	10.1	11.0	10.3	9.4	8.7	8.2	8.3	—
	26	9.8	10.0	10.1	10.1	10.1	10.3	10.8	10.1	9.0	8.4	9.0	9.2	—
	27	9.8	10.0	10.1	10.1	10.1	10.3	10.8	10.1	9.1	8.4	8.3	7.8	—
	28	9.4	9.5	9.6	9.6	10.0	10.1	11.1	10.9	10.1	9.0	9.5	9.2	—
	29	10.0	10.0	10.0	10.0	10.1	10.1	10.2	9.3	9.0	9.6	7.8	7.8	—
	30	9.3	9.6	9.4	9.3	9.6	10.1	10.2	9.1	9.1	9.4	9.5	9.6	—
	31	9.5	9.6	9.6	9.9	10.1	10.2	10.7	9.9	8.7	8.1	7.7	8.3	—
Hourly Means.		9.48	9.80	9.74	9.85	10.00	10.20	10.71	10.19	9.37	8.94	8.70	8.97	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	9.3	9.5	9.9	9.8	9.5	9.2	9.4	9.4	9.3	9.4	9.4	9.5	9.58
	2	9.2	9.4	9.9	10.3	10.3	9.9	9.6	9.5	9.3	9.4	9.6	9.9	9.77
	3	8.3	8.9	9.4	9.9	9.9	9.5	9.2	9.3	9.3	9.4	9.3	9.5	9.45
	4	9.9	10.4	11.0	10.8	9.6	9.2	9.3	9.2	9.0	9.0	9.3	9.4	9.77
	5	9.3	9.9	10.3	10.3	10.2	9.6	8.9	9.3	8.9	9.1	9.1	9.4	9.55
	6	8.3	9.6	9.3	10.3	10.1	9.9	9.9	9.4	9.2	9.1	9.0	9.0	9.44
	7	9.0	9.0	9.8	10.1	10.4	9.5	9.4	11.2	9.6	9.0	8.5	8.7	9.58
	8	8.6	9.8	9.6	9.9	9.9	9.5	9.3	9.2	9.5	9.0	8.7	9.3	9.69
	9	9.8	9.8	10.2	10.8	10.2	10.0	9.6	9.6	9.3	9.3	9.1	9.1	9.68
	10	9.1	9.8	10.1	10.7	10.2	10.2	9.6	9.4	9.2	9.6	10.0	9.4	9.70
	11	10.0	10.2	11.1	10.4	10.0	10.1	9.9	9.9	9.0	9.4	9.4	9.6	9.93
	12	10.1	10.2	10.6	10.3	10.2	10.1	9.5	9.8	9.2	9.4	9.1	9.4	9.73
	13	10.2	11.1	11.2	10.8	10.3	10.0	10.0	10.1	10.0	9.6	9.3	9.3	9.91
	14	9.2	10.0	10.3	10.9	10.3	9.6	9.2	9.3	9.2	9.0	9.2	9.3	9.51
	15	8.7	8.9	9.3	9.9	9.6	9.1	9.0	8.7	8.9	9.0	9.0	9.6	9.34
	16	9.1	9.3	9.8	9.9	9.9	9.2	9.1	9.1	9.0	9.2	9.5	9.6	9.67
	17	9.4	9.4	9.9	10.3	10.1	9.2	9.8	9.6	9.5	9.5	9.6	9.9	9.70
	18	9.0	8.9	9.0	10.0	10.6	9.5	9.3	9.4	9.6	9.6	9.8	9.9	9.72
	19	9.3	9.6	10.0	10.2	10.0	9.3	9.1	9.3	9.1	9.0	9.0	9.3	9.83
	20	9.0	9.6	10.1	10.4	10.3	9.5	9.3	9.4	9.2	9.1	9.2	9.3	9.70
	21	9.5	9.5	9.5	9.9	10.4	9.6	9.2	9.1	9.1	9.0	9.0	9.4	9.55
	22	9.0	9.4	10.2	10.6	10.1	9.1	9.2	9.3	9.2	9.0	9.4	9.5	9.46
	23	9.0	9.8	10.2	10.1	10.1	9.8	9.5	9.4	9.0	9.2	9.1	9.1	9.33
	24	7.8	8.7	9.4	10.1	10.0	9.4	9.5	9.2	9.5	9.5	9.4	9.4	9.43
	25	8.5	9.0	9.6	10.3	10.3	10.0	9.4	9.4	9.3	9.4	9.5	9.6	9.52
	26	9.5	9.6	9.8	10.1	10.4	10.0	9.5	9.4	9.4	9.4	9.5	9.8	9.72
	27	7.9	8.6	9.6	10.1	10.4	10.6	9.1	9.0	9.2	9.0	9.4	9.4	9.47
	28	9.3	9.3	9.4	10.0	10.1	9.8	9.4	9.4	9.4	9.3	9.3	9.8	9.69
	29	8.4	8.4	9.3	9.9	10.1	9.4	9.4	9.2	9.2	9.1	9.2	9.3	9.37
	30	10.3	10.2	10.1	9.9	9.6	9.3	9.4	9.4	9.3	9.1	9.1	9.3	9.55
	31	8.3	9.0	10.6	10.8	10.2	9.5	9.2	9.3	9.3	9.3	9.4	9.5	9.45
Hourly Means.		9.11	9.51	9.95	10.25	10.11	9.63	9.39	9.43	9.27	9.24	9.27	9.44	9.61

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	209	213	215	210	210	216	219	212	215	225	224	222	—
	2	193	196	197	199	203	207	212	222	230	231	234	230	—
	3	196	202	197	202	201	205	213	219	228	234	235	231	—
	4	200	202	204	205	207	211	219	225	235	237	237	232	—
	5	206	212	212	215	213	216	234	233	241	251	253	249	
	6	212	214	216	219	223	222	226	237	253	256	245	220	—
	7	162	169	182	182	187	186	201	206	215	218	209	195	—
	8	167	162	172	177	185	187	200	196	214	194	214	211	—
	9	174	177	178	180	189	191	182	200	202	206	205	207	—
	10	186	186	187	190	194	196	206	216	224	232	236	233	—
	11	190	187	196	191	195	198	206	208	219	216	221	224	—
	12	186	185	192	191	194	196	205	209	205	216	215	210	—
	13	180	183	182	181	182	184	191	200	211	215	215	209	—
	14	173	181	185	188	182	186	190	205	212	205	212	211	—
	15	191	191	191	196	196	199	205	215	233	239	244	239	—
	16	192	193	198	205	205	201	208	216	218	219	208	200	—
	17	194	192	187	187	192	191	196	208	216	221	222	214	—
	18	196	197	198	200	198	202	208	215	214	222	230	228	—
	19	191	207	191	196	200	207	215	226	230	229	225	207	—
	20	191	194	196	188	195	203	207	213	215	218	205	207	—
	21	186	184	184	185	187	191	206	215	213	221	219	214	—
	22	185	187	186	190	191	195	206	215	222	225	220	213	—
	23	195	196	196	196	200	205	210	220	224	231	224	220	—
	24	183	186	190	192	192	198	203	215	216	220	218	213	—
	25	185	187	190	192	195	199	209	215	223	231	229	226	—
	26	188	187	186	187	191	196	210	217	225	229	224	219	—
	27	191	191	192	196	196	202	217	229	238	241	238	235	—
	28	191	191	193	196	195	200	215	224	232	236	229	223	—
	29	191	194	195	196	200	205	211	214	223	229	234	228	—
	30	205	206	206	207	208	209	215	228	234	240	234	222	—
	31	197	199	200	200	200	207	218	231	243	253	254	244	—
Hourly Means.		189.9	192.0	193.4	194.8	197.0	200.4	208.5	216.3	223.3	227.1	226.2	220.5	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	219	211	209	200	195	194	192	186	186	184	186	187	205.8
	2	222	212	206	194	192	196	196	195	198	196	189	189	205.8
	3	220	206	193	190	193	195	196	195	194	195	199	199	205.8
	4	228	224	220	218	214	208	207	205	204	200	200	202	214.3
	5	234	219	205	212	217	213	215	209	210	209	208	206	220.5
	6	195	174	167	170	172	172	175	172	172	168	165	158	200.1
	7	190	176	159	137	120	92	129	116	110	158	143	137	165.8
	8	238	193	191	178	174	169	170	167	155	160	169	170	183.9
	9	205	200	191	180	176	172	178	181	182	178	179	179	187.2
	10	233	215	205	184	192	179	177	187	190	185	196	191	200.8
	11	220	212	194	183	186	179	180	166	180	180	197	188	196.5
	12	200	187	181	161	148	157	173	167	173	177	180	178	186.9
	13	200	195	183	171	173	177	175	165	165	170	171	173	185.5
	14	205	178	177	164	173	182	189	186	189	189	190	190	189.3
	15	229	223	215	204	211	207	207	208	205	203	199	183	209.7
	16	198	196	190	186	187	192	191	188	186	189	187	191	197.7
	17	206	197	190	188	190	187	173	182	188	191	193	195	195.8
	18	225	214	201	191	192	200	198	200	194	193	196	195	204.5
	19	205	197	191	190	190	191	186	180	184	186	183	186	199.7
	20	206	207	195	184	181	187	189	181	194	190	177	207	197.1
	21	205	203	192	184	179	187	191	190	189	181	182	183	194.6
	22	205	196	188	185	182	188	193	191	191	190	194	193	197.1
	23	218	208	199	195	193	191	187	185	181	187	186	187	201.4
	24	209	201	199	190	187	188	185	183	181	186	185	185	196.0
	25	217	212	209	190	186	192	193	189	186	188	190	188	200.9
	26	212	202	186	181	180	183	188	188	190	190	189	191	197.5
	27	229	218	206	195	185	171	186	188	186	189	183	186	203.7
	28	211	202	195	193	191	188	187	188	190	190	191	191	201.8
	29	217	207	198	194	191	191	191	190	195	197	199	203	203.9
	30	211	201	195	195	193	193	194	195	195	195	195	197	207.2
	31	240	234	224	211	200	201	202	202	201	200	199	197	214.9
Hourly Means.		214.6	203.9	195.3	187.0	185.3	184.6	186.9	184.7	185.3	186.9	187.1	187.3	199.1

VERTICAL FORCE A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	302	300	300	303	304	300	299	306	313	306	307	310	—
	2	317	314	314	314	314	312	308	305	300	299	299	300	—
	3	317	313	316	314	314	313	308	310	309	305	302	297	—
	4	298	294	292	293	296	295	286	288	286	285	287	289	—
	5	314	312	312	311	312	310	303	296	292	282	281	279	—
	6	301	299	298	296	296	293	292	298	292	296	296	311	—
	7	320	316	305	307	305	303	295	303	303	302	305	309	—
	8	304	307	302	297	297	294	286	291	296	306	298	288	—
	9	304	303	303	303	298	297	299	288	283	279	281	282	—
	10	305	304	304	303	300	297	291	299	297	290	291	298	—
	11	320	322	319	316	314	310	304	307	298	303	304	303	—
	12	323	323	318	318	317	314	309	307	308	298	296	299	—
	13	325	325	324	323	321	319	312	307	303	300	298	300	—
	14	328	325	323	322	325	320	316	317	316	325	321	318	—
	15	330	330	330	328	327	325	317	312	310	308	310	311	—
	16	331	329	326	324	325	325	321	321	320	320	325	334	—
	17	334	335	337	339	336	336	335	331	325	323	317	317	—
	18	334	332	333	333	335	333	330	326	329	330	327	333	—
	19	334	325	335	333	333	328	323	321	316	311	320	333	—
	20	334	332	331	336	335	330	326	326	325	325	332	333	—
	21	341	341	340	341	339	337	331	312	317	317	314	320	—
	22	326	325	323	320	322	319	313	307	310	312	312	313	—
	23	319	317	314	314	314	310	309	317	316	309	309	308	—
	24	329	325	323	320	321	316	318	326	331	332	333	331	—
	25	331	327	325	324	324	320	314	320	322	320	319	314	—
	26	338	337	336	334	333	328	325	327	322	314	315	318	—
	27	337	337	335	333	333	328	321	320	320	320	321	325	—
	28	333	333	332	331	331	325	317	313	316	317	321	328	—
	29	331	330	329	328	328	325	321	318	312	312	309	309	—
	30	320	321	323	322	323	321	320	314	301	289	294	304	—
	31	321	320	320	320	320	314	310	302	298	294	286	284	—
Hourly Means.		322.6	321.1	320.1	319.4	319.1	316.0	311.6	310.8	309.2	307.4	307.4	309.6	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	308	314	318	321	326	331	328	327	326	325	322	320	313.2
	2	304	311	314	323	326	325	324	324	321	321	320	320	313.7
	3	306	312	319	322	325	325	325	324	324	321	317	316	314.8
	4	291	284	286	295	306	311	310	310	310	310	305	300	296.1
	5	287	302	311	304	306	312	310	316	313	311	308	305	303.7
	6	314	318	324	324	325	326	324	323	323	324	324	324	310.0
	7	310	314	313	320	337	356	329	330	340	312	327	326	316.1
	8	288	297	303	313	314	317	315	316	321	320	310	309	303.7
	9	289	291	293	299	310	317	314	311	311	314	312	310	299.6
	10	297	294	301	316	321	331	331	325	322	323	319	322	307.5
	11	310	310	320	331	332	335	332	335	331	327	316	320	317.5
	12	309	320	320	336	343	338	331	331	325	326	325	325	319.1
	13	313	318	326	333	334	334	332	336	335	334	333	331	321.5
	14	321	338	335	342	344	340	334	335	333	334	332	330	328.1
	15	316	320	324	323	325	334	332	331	332	330	331	338	323.9
	16	341	334	336	339	344	345	342	341	339	338	337	335	332.2
	17	316	323	333	337	346	346	352	347	341	337	336	335	333.9
	18	334	337	339	333	339	341	341	338	340	339	336	334	334.4
	19	335	332	337	344	344	346	346	348	345	342	342	337	333.8
	20	333	327	328	340	347	347	346	348	342	344	350	335	335.5
	21	322	321	328	331	333	333	331	331	332	333	332	331	329.5
	22	314	313	307	312	320	323	320	325	325	325	323	320	317.9
	23	311	310	317	323	328	332	331	331	332	328	330	330	319.1
	24	325	321	331	331	334	333	333	333	334	333	333	331	328.2
	25	320	326	328	334	336	338	338	338	341	339	338	339	328.4
	26	323	326	331	330	335	338	338	337	338	338	337	337	330.6
	27	323	324	325	331	337	349	339	338	338	338	338	335	331.0
	28	335	337	341	337	339	341	340	338	336	335	332	332	330.8
	29	316	323	328	331	333	337	336	337	331	330	327	321	325.1
	30	318	325	331	331	331	334	331	331	327	327	325	323	320.3
	31	288	292	292	300	322	327	325	325	323	324	320	320	310.3
Hourly Means.		313.5	316.6	320.6	325.4	330.4	333.6	331.0	331.0	330.0	328.5	327.0	325.5	320.3

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40′.0 + THE NUMBERS IN THE TABLE.

AUGUST. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	10.1	10.3	10.3	10.4	10.5	10.5	11.5	10.9	9.8	9.3	9.4	9.3	—
2	9.5	9.7	9.4	10.1	8.9	10.1	11.4	10.7	9.9	10.2	8.3	10.2	—
3	8.9	8.8	8.6	10.1	9.4	10.1	10.5	9.8	8.9	8.1	8.9	9.6	—
4	9.6	9.4	10.4	9.7	10.5	10.9	11.5	10.5	8.9	7.3	7.1	7.6	—
5	9.6	9.5	10.1	9.7	9.7	10.5	11.4	10.6	9.8	9.0	8.8	8.9	—
6	9.5	9.8	9.9	9.8	10.2	11.0	11.8	11.4	10.1	9.0	8.5	9.7	—
7	9.5	9.4	9.7	9.7	10.5	11.0	11.5	11.3	10.5	9.6	8.7	8.2	—
8	9.7	10.3	9.8	9.7	10.5	10.5	11.2	11.1	9.9	9.5	9.5	9.7	—
9	9.6	9.6	9.6	9.7	10.3	10.5	11.7	11.0	9.8	8.8	8.3	8.3	—
10	9.6	9.6	9.8	9.9	10.4	10.7	11.8	11.1	10.3	9.6	9.1	8.6	—
11	9.6	9.7	9.9	9.7	10.3	10.4	10.7	10.5	9.6	9.1	8.7	9.1	—
12	9.7	9.9	10.1	10.2	10.3	10.5	11.2	10.5	9.8	9.3	8.5	8.3	—
13	9.5	9.6	9.7	9.6	10.1	10.4	10.9	9.7	8.7	8.2	8.3	8.5	—
14	10.2	10.1	10.4	10.5	10.6	11.3	11.8	10.9	9.8	9.3	9.1	9.4	—
15	9.8	10.1	10.1	10.4	10.6	11.1	11.7	10.9	10.4	9.4	9.4	8.9	—
16	9.9	10.2	10.5	10.1	11.0	11.2	11.5	9.8	8.8	7.9	7.6	7.1	—
17	9.8	9.9	10.1	10.1	10.5	10.6	11.5	9.8	8.7	8.3	8.3	9.0	—
18	10.1	10.2	10.2	10.4	10.6	10.7	11.3	10.5	9.7	8.2	7.8	8.1	—
19	9.4	9.9	9.7	9.7	9.8	10.7	11.5	10.5	9.4	8.5	8.1	8.3	—
20	9.9	10.1	10.1	10.4	10.5	10.7	11.7	11.1	10.3	9.4	9.0	8.9	—
21	9.6	9.7	9.6	9.6	10.2	10.6	11.8	11.4	10.5	9.9	9.8	9.7	—
22	9.8	9.9	9.9	10.1	10.3	10.5	10.9	9.9	9.4	9.1	8.5	8.2	—
23	9.4	9.5	9.5	9.6	9.9	10.5	11.7	11.1	9.7	8.8	7.8	7.2	—
24	9.5	9.5	9.5	9.6	9.8	10.5	11.3	9.8	8.6	8.2	8.1	8.2	—
25	9.5	9.6	9.6	9.5	9.9	10.4	11.0	10.4	9.1	8.3	8.7	8.3	—
26	9.9	9.7	9.7	9.7	9.7	9.9	10.5	10.5	9.9	9.7	9.4	9.8	—
27	10.1	9.6	10.1	9.6	9.9	10.5	11.3	11.0	9.9	9.4	9.4	9.5	—
28	10.1	10.1	10.1	10.2	10.3	10.6	11.2	9.9	9.1	8.3	8.2	8.3	—
29	9.8	9.6	10.1	10.1	9.4	10.4	11.1	10.1	9.4	9.4	10.2	10.5	—
30	9.0	9.5	9.4	9.8	11.1	11.0	11.7	9.5	8.3	8.2	8.3	7.4	—
31	8.9	9.6	10.1	9.9	10.5	11.2	10.7	8.7	7.4	7.1	7.1	7.1	—
Hourly Means.	9.65	9.75	9.87	9.92	10.20	10.63	11.33	10.48	9.50	8.85	8.61	8.71	—

AUGUST. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	9.7	9.4	10.1	10.1	10.3	9.5	9.9	10.1	9.3	9.3	9.6	9.5	9.96
2	10.6	11.2	11.7	10.7	11.0	10.1	9.9	9.4	9.4	9.0	9.3	9.4	10.00
3	8.8	10.5	11.5	11.8	11.5	9.5	9.7	9.5	9.4	8.1	9.1	9.3	9.60
4	7.9	9.4	10.4	11.0	11.1	10.3	10.2	9.7	10.2	9.5	9.6	9.7	9.68
5	8.9	8.6	9.5	11.2	11.1	10.9	10.5	10.1	10.2	9.8	9.8	9.5	9.90
6	10.5	10.6	11.4	11.1	11.2	10.5	9.6	10.3	10.3	9.9	9.9	9.5	10.23
7	8.2	9.0	9.9	10.9	11.5	10.4	9.8	9.6	9.8	9.9	9.7	9.7	9.92
8	10.6	11.0	10.6	10.6	10.9	10.2	9.7	9.6	9.6	9.6	9.6	9.5	10.12
9	8.9	9.5	10.5	11.7	11.7	10.7	10.1	10.1	9.9	9.8	9.8	9.6	9.98
10	8.1	8.5	10.2	11.1	10.9	10.2	10.1	10.1	9.7	9.5	9.4	9.4	9.90
11	9.4	9.8	10.5	11.3	11.3	10.4	9.9	9.7	9.8	9.6	9.5	9.7	9.93
12	8.5	9.1	10.5	11.0	11.1	9.9	9.7	9.8	9.6	9.5	9.5	9.5	9.83
13	9.1	9.5	9.8	10.4	10.6	9.6	9.6	9.6	9.6	9.6	9.9	9.7	9.59
14	9.5	9.7	10.4	10.6	10.6	10.5	10.1	9.4	9.4	9.4	9.5	9.4	10.08
15	9.3	9.6	10.5	11.3	10.9	10.2	10.1	9.4	9.4	9.3	9.4	9.6	10.08
16	8.2	9.3	10.4	11.1	11.1	10.5	10.2	10.3	9.8	9.5	9.7	9.4	9.80
17	9.8	10.7	11.4	11.4	11.2	10.5	9.9	9.8	9.8	9.6	9.7	9.8	10.01
18	8.8	9.7	11.0	11.5	11.0	10.5	9.9	9.8	9.7	9.4	9.6	9.5	9.93
19	8.1	8.2	9.5	10.4	10.5	10.5	10.1	9.9	9.7	9.7	9.7	9.9	9.65
20	9.0	9.0	9.5	11.5	11.3	10.3	9.8	9.5	9.4	9.4	9.4	9.5	9.99
21	9.4	8.8	9.3	10.2	10.6	10.5	10.1	9.7	9.7	9.5	9.7	9.5	9.98
22	8.8	9.3	10.5	11.8	11.5	9.9	9.8	9.6	9.6	9.6	9.5	9.4	9.83
23	7.7	8.2	9.8	10.6	10.7	10.2	10.1	9.9	9.6	9.5	9.5	9.5	9.58
24	8.7	8.9	10.5	11.8	11.8	10.5	10.3	9.8	9.8	9.6	9.5	9.5	9.72
25	8.6	8.9	9.9	10.6	10.7	9.8	9.6	9.5	9.7	9.6	9.6	9.8	9.61
26	10.1	10.2	10.6	11.1	11.1	10.4	9.9	9.6	9.8	9.4	9.8	9.6	10.00
27	9.5	9.9	10.4	10.7	10.7	10.2	9.9	9.7	9.7	9.7	9.8	9.9	10.02
28	8.7	8.6	10.3	11.2	11.4	10.5	10.1	9.7	9.7	9.5	9.4	9.3	9.78
29	11.7	10.5	10.5	10.5	10.5	11.1	11.0	9.8	10.3	9.5	8.5	9.5	10.15
30	7.3	9.0	10.5	11.9	12.0	9.8	9.7	9.7	9.8	9.0	8.7	9.4	9.58
31	8.4	9.3	11.0	12.3	11.4	10.5	10.1	10.1	9.7	9.4	9.7	9.5	9.56
Hourly Means.	9.05	9.48	10.41	11.08	11.07	10.28	9.98	9.77	9.72	9.47	9.53	9.55	9.87

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0. 36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	207	208	212	213	214	222	232	237	243	250	250	241	—
	2	170	184	192	197	205	183	197	147	147	138	142	142	—
	3	153	171	165	161	171	180	191	196	202	221	213	190	—
	4	137	156	156	161	173	180	189	199	213	211	199	188	—
	5	165	169	169	178	179	178	191	204	194	211	195	191	—
	6	171	174	175	178	187	186	203	207	221	232	225	206	—
	7	170	169	174	178	179	181	192	196	212	217	220	217	—
	8	181	181	184	185	183	186	190	199	200	199	197	197	—
	9	181	183	189	190	189	194	205	214	217	220	222	220	—
	10	186	189	190	189	191	194	205	215	225	233	231	226	—
	11	188	189	189	193	199	201	210	223	232	231	230	223	—
	12	193	193	194	194	199	202	212	218	226	232	234	227	—
	13	191	189	192	196	199	208	215	225	232	237	238	239	—
	14	199	203	204	206	209	217	227	231	236	237	236	222	—
	15	182	188	190	194	187	204	213	209	204	220	213	213	—
	16	188	183	191	194	185	189	198	209	208	211	194	198	—
	17	185	188	189	192	195	199	211	220	231	234	236	230	—
	18	184	186	196	193	196	197	208	220	225	227	222	213	—
	19	194	191	194	194	193	199	215	228	242	248	242	231	—
	20	189	189	194	194	198	201	216	230	240	245	241	230	—
	21	197	200	201	204	206	217	218	237	253	259	256	234	—
	22	190	189	186	184	194	194	203	217	227	227	228	221	—
	23	183	183	184	185	189	194	206	212	221	226	227	223	—
	24	185	186	188	188	189	194	207	223	232	237	228	218	—
	25	184	186	189	189	188	194	198	213	246	242	243	232	—
	26	190	191	196	203	201	201	204	214	222	232	234	223	—
	27	195	194	194	194	194	198	212	217	223	229	230	225	—
	28	185	188	190	195	205	204	223	237	238	239	237	228	—
	29	147	156	156	183	180	180	199	219	220	235	209	199	—
	30	161	161	162	171	181	182	189	202	200	208	199	186	—
	31	179	165	166	170	173	180	186	204	204	198	205	196	—
Hourly Means.		181.0	183.3	185.5	188.6	191.3	194.8	205.3	213.6	220.5	225.4	221.8	213.8	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	230	226	220	213	210	205	210	184	194	199	204	170	216.4
	2	127	122	117	123	121	140	142	146	146	142	137	146	152.2
	3	180	149	118	127	132	161	171	166	152	173	140	142	167.7
	4	190	173	168	170	162	161	157	163	159	170	164	160	173.3
	5	193	195	192	173	146	151	141	138	164	181	167	175	176.7
	6	199	194	178	162	149	170	167	168	167	183	174	171	185.3
	7	201	192	170	162	160	174	174	178	175	175	180	176	184.3
	8	180	175	173	167	162	175	176	178	181	180	182	183	183.1
	9	213	211	198	188	180	179	188	185	184	184	184	184	195.9
	10	222	209	200	193	187	188	184	184	184	185	185	189	199.3
	11	213	205	195	189	185	189	187	186	185	189	185	190	200.3
	12	219	212	204	197	192	193	194	190	189	189	189	189	203.4
	13	227	222	207	202	199	204	201	203	203	200	194	194	209.0
	14	213	204	194	177	170	180	182	186	186	192	163	173	202.0
	15	207	200	188	165	156	149	162	175	185	178	188	178	189.5
	16	197	186	171	166	169	179	181	174	174	175	179	185	186.8
	17	221	207	193	188	191	188	191	190	180	188	184	184	200.6
	18	208	199	189	185	183	185	189	186	185	185	186	189	197.3
	19	219	208	198	189	187	191	190	189	189	186	185	187	203.7
	20	218	211	204	197	191	189	190	190	193	194	194	197	205.6
	21	216	209	204	198	190	189	190	192	192	192	189	192	209.8
	22	208	208	204	194	181	179	175	175	173	173	174	178	195.1
	23	213	201	187	180	179	181	183	184	185	185	186	185	195.1
	24	204	192	183	181	180	180	176	175	175	173	178	182	193.9
	25	213	210	208	201	198	191	190	189	170	183	185	187	201.2
	26	219	216	213	206	203	201	201	201	201	199	196	196	206.8
	27	220	211	199	188	184	185	185	184	184	184	184	185	199.9
	28	208	191	175	170	173	172	175	178	181	160	151	139	193.4
	29	146	156	156	151	149	106	122	127	136	147	160	156	166.5
	30	174	151	147	148	138	149	166	161	153	166	151	153	169.1
	31	170	171	146	133	151	160	166	165	168	175	170	174	174.0
Hourly Means.		202.2	194.1	183.8	176.9	172.8	175.6	177.6	177.1	177.2	180.2	177.0	177.1	191.5

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

AUGUST.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	300	298	297	297	296	291	288	290	292	292	288	294	—
2	318	309	304	302	296	307	296	324	330	333	329	313	—
3	311	305	309	308	305	298	296	302	307	302	300	307	—
4	327	313	312	309	303	299	301	314	318	322	321	319	—
5	323	319	317	314	315	313	308	306	318	308	307	312	—
6	318	318	317	315	310	308	307	293	297	298	291	286	—
7	307	307	302	300	299	294	288	290	287	290	290	290	—
8	305	304	302	302	302	297	296	293	287	277	277	274	—
9	307	306	302	301	300	293	287	292	300	306	302	291	—
10	305	303	302	301	300	296	291	290	291	287	285	289	—
11	305	303	302	301	297	293	290	286	281	280	280	286	—
12	303	302	302	301	299	296	293	313	313	313	314	315	—
13	321	321	319	316	314	307	305	304	300	292	292	296	—
14	320	318	318	318	316	309	308	314	318	316	315	323	—
15	324	320	320	319	322	313	312	318	325	323	327	328	—
16	320	323	318	318	323	321	319	322	329	330	334	328	—
17	322	321	321	320	320	317	318	324	322	320	318	318	—
18	329	327	322	324	324	323	319	309	315	314	313	314	—
19	318	318	318	318	318	313	307	313	318	318	316	326	—
20	323	321	318	318	315	311	307	310	313	313	318	323	—
21	324	323	322	320	319	313	316	314	318	319	323	335	—
22	330	330	330	330	323	323	323	318	316	318	319	318	—
23	328	328	327	325	323	318	314	330	336	342	349	356	—
24	345	345	344	343	340	334	333	334	331	325	328	327	—
25	343	341	339	339	340	333	338	339	326	329	329	325	—
26	339	339	336	332	333	330	325	320	319	313	313	317	—
27	342	340	339	339	340	334	331	338	334	324	324	330	—
28	344	344	343	341	337	335	329	337	340	340	339	339	—
29	361	356	356	340	347	341	336	335	342	336	346	339	—
30	345	347	346	342	338	336	339	346	357	350	354	355	—
31	345	351	350	349	346	342	345	339	342	346	342	343	—
Hourly Means.	324.3	322.6	321.1	319.4	318.1	314.1	311.8	314.7	316.8	315.4	315.6	316.6	—

AUGUST.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	301	302	301	304	307	313	309	321	313	308	305	318	301.0
2	311	307	313	318	323	318	321	319	320	322	322	316	315.5
3	310	320	325	321	320	313	310	314	323	316	331	326	314.6
4	311	307	300	303	318	328	330	329	330	325	325	325	316.2
5	310	308	306	315	332	333	336	339	326	323	322	318	317.8
6	290	290	301	307	315	309	310	309	311	303	308	308	305.0
7	300	298	305	301	305	308	308	303	308	309	308	307	300.2
8	286	295	300	312	312	312	311	313	311	312	310	309	300.0
9	294	294	296	296	302	310	306	306	307	308	308	307	300.9
10	292	293	292	297	306	310	310	309	309	308	308	305	299.1
11	292	298	302	303	307	312	309	309	309	307	306	305	298.5
12	313	310	310	315	321	328	324	324	324	323	323	323	312.6
13	310	316	321	319	322	323	323	323	323	322	323	323	314.0
14	329	331	330	334	335	331	329	325	323	323	337	333	323.0
15	329	330	329	337	340	347	336	326	321	324	320	324	325.6
16	324	316	315	322	328	329	329	332	332	329	327	321	324.5
17	320	319	322	323	328	335	333	333	336	330	331	330	324.2
18	312	312	312	323	328	329	328	329	327	323	323	319	320.8
19	328	320	318	319	323	328	329	329	329	327	325	323	320.8
20	328	324	325	324	329	334	333	329	329	329	328	325	322.0
21	339	339	335	329	333	338	336	335	334	333	333	331	327.5
22	318	317	301	302	323	335	336	335	336	336	334	331	324.3
23	363	366	349	349	350	350	350	350	349	348	346	347	341.4
24	334	340	336	332	342	353	349	350	349	350	347	345	339.8
25	326	325	328	330	335	344	345	345	329	346	344	340	335.8
26	322	324	328	331	339	341	341	339	339	339	339	338	330.7
27	339	343	349	356	357	357	353	350	349	349	347	345	342.0
28	345	350	350	351	353	361	357	356	352	362	369	373	347.8
29	359	356	356	361	363	382	374	368	361	356	354	349	353.1
30	354	348	345	340	354	359	350	354	360	356	361	356	349.7
31	345	336	337	345	347	351	351	350	350	345	345	343	345.2
Hourly Means.	320.5	320.5	320.5	323.2	328.9	332.9	331.2	330.7	329.6	328.7	329.3	327.8	322.3

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	9.2	9.5	9.5	9.6	10.1	10.6	10.6	9.1	8.2	8.5	9.0	9.5	—
	2	9.0	9.0	9.1	9.1	10.0	10.8	10.8	9.2	8.4	7.8	8.7	9.0	—
	3	9.5	9.1	9.0	9.6	10.0	10.4	11.0	9.1	7.9	7.9	7.8	7.9	—
	4	9.1	9.1	9.2	9.6	10.1	10.8	11.0	9.3	8.4	7.6	6.9	7.0	—
	5	9.3	9.5	9.6	10.0	10.1	10.3	11.1	9.9	8.3	7.8	7.1	6.7	—
	6	9.2	9.5	9.5	9.6	9.9	10.3	11.1	9.5	8.4	8.2	8.5	8.5	—
	7	9.3	9.4	9.5	9.5	9.8	10.2	11.0	9.1	7.5	6.7	6.8	7.0	—
	8	9.2	9.5	9.5	9.6	9.9	10.2	10.8	9.2	7.4	6.9	7.8	8.3	—
	9	9.6	9.9	9.8	10.1	10.1	10.4	10.4	8.5	7.7	7.0	7.1	7.9	—
	10	9.3	9.4	9.3	9.4	9.8	10.7	11.3	10.0	8.2	6.8	5.9	5.8	—
	11	9.2	9.2	9.2	9.9	10.1	10.4	10.9	10.1	8.6	7.9	7.9	7.8	—
	12	9.4	9.6	9.6	10.1	10.4	11.2	11.6	10.8	8.6	7.5	7.0	7.1	—
	13	9.5	9.8	9.8	10.1	10.2	10.9	10.4	9.4	8.8	8.5	9.0	9.0	—
	14	9.1	9.3	9.5	9.4	10.1	10.2	10.0	8.5	7.7	7.4	7.9	8.5	—
	15	9.1	9.3	9.6	9.4	10.0	10.7	10.7	9.5	8.8	8.3	8.4	9.0	—
	16	8.7	9.0	9.2	9.3	9.9	10.2	10.4	9.2	9.3	8.5	8.5	8.6	—
	17	9.2	9.5	9.5	9.9	10.0	10.7	10.8	9.0	7.6	7.4	7.1	7.4	—
	18	9.2	9.2	9.4	9.5	9.9	10.3	10.2	8 6	7.0	6.2	6.0	7.0	—
	19	9.4	9.4	9.4	9.5	9.6	10.2	10.2	8.8	8.2	7.5	7.2	7.2	—
	20	9.2	9.2	9.0	9.1	9.2	9.8	9.5	7.7	6.2	5.9	5.9	6.6	—
	21	9.3	9.3	9.3	9.3	9.3	10.1	9.9	8.4	6.9	6.1	6.1	6.6	—
	22	9.2	9.2	9.1	9.2	9.4	10.2	10.6	9.0	8.4	8.3	7.9	9.0	—
	23	9.3	9.1	9.1	9.3	9.3	9.9	9.3	7.8	7.4	7.7	8.6	8.6	—
	24	9.2	9.5	9.3	9.2	9.4	10.9	11.1	8.3	6.8	6.6	7.2	8.2	—
	25	8.8	9.1	9.1	9.3	9.4	9.5	8.8	6.9	6.6	6.8	7.4	7.8	—
	26	7.9	7.6	7.7	7.8	10.2	12.4	12.9	12.4	11.1	10.1	11.0	10.0	—
	27	8.7	9.0	9.4	9.4	9.2	9.3	9.0	7.7	6.7	7.1	7.7	7.8	—
	28	9.0	9.0	9.1	9.0	9.0	9.9	9.5	8.0	7.7	8.3	8.5	9.8	—
	29	9.1	9.4	9.4	9.3	9.3	9.2	9.0	7.8	7.6	7.6	8.2	9.9	—
	30	9.0	9.0	8.7	8.8	9.0	9.0	7.7	7.4	6.7	7.1	8.5	9.6	—
Hourly Means.		9.14	9.25	9.28	9.43	9.76	10.32	10.39	8.94	7.90	7.53	7.72	8.10	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	10.0	9.6	10.2	11.2	11.3	11.1	10.6	10.1	9.3	9.1	9.0	9.0	9.75
	2	9.4	9.9	10.8	10.7	10.8	10.2	9.9	9.9	9.8	9.0	9.5	9.1	9.58
	3	7.8	8.7	10.0	10.6	10.6	10.1	9.9	9.9	9.0	9.2	9.3	9.1	9.31
	4	7.8	8.7	10.4	11.0	10.8	10.1	10.0	9.9	9.6	9.4	9.3	9.2	9.35
	5	6.9	8.5	9.6	10.3	10.3	10.0	9.9	9.6	9.4	9.4	9.3	9.2	9.25
	6	7.8	8.2	10.0	10.8	10.6	10.1	10.0	9.9	9.8	9.6	9.5	9.2	9.49
	7	7.6	8.7	11.0	11.1	10.3	10.0	9.6	9.5	9.4	9.2	9.3	9.1	9.19
	8	8.2	7.9	9.2	10.3	10.2	9.8	9.6	9.4	9.4	9.3	9.5	9.5	9.19
	9	8.7	9.0	9.5	10.1	10.3	9.9	9.8	9.4	9.4	9.3	9.2	9.3	9.27
	10	5.8	6.7	8.8	10.1	10.1	9.3	9.0	8.6	9.1	9.0	9.2	9.1	8.78
	11	7.9	8.4	9.2	10.1	10.2	9.9	9.3	9.5	9.0	9.1	9.4	9.2	9.27
	12	7.6	7.8	9.5	10.1	10.2	9.9	9.5	9.3	9.4	9.4	9.4	9.3	9.35
	13	9.0	9.5	10.1	10.2	10.3	9.3	9.1	9.2	9.2	9.1	9.1	9.1	9.53
	14	9.4	9.6	10.2	10.9	10.3	9.9	9.4	9.2	9.2	9.0	9.2	9.1	9.29
	15	10.0	10.3	11.1	11.0	10.1	9.5	9.5	9.1	9.0	9.0	7.8	7.9	9.46
	16	9.3	10.3	11.0	11.0	10.1	9.9	10.1	9.8	9.1	9.2	9.3	9.2	9.55
	17	8.4	10.2	11.8	11.1	10.2	9.8	9.9	9.5	9.3	9.2	9.3	9.3	9.42
	18	7.8	9.0	10.1	10.1	9.9	9.8	9.8	9.9	9.8	9.6	9.5	9.4	9.05
	19	8.4	10.0	11.0	10.7	10.1	9.6	9.5	9.5	9.5	9.5	9.1	9.2	9.28
	20	7.2	8.5	10.1	10.7	10.3	10.1	9.9	9.6	9.4	9.3	9.2	9.2	8.78
	21	7.8	8.7	9.6	10.1	10.8	10.6	10.1	9.9	9.4	9.3	9.3	9.2	8.98
	22	9.2	9.8	9.3	9.2	9.6	9.8	9.5	9.3	9.3	9.1	9.3	9.0	9.25
	23	8.8	9.4	10.6	10.1	9.9	9.8	9.5	9.5	9.5	9.2	9.2	9.5	9.18
	24	10.0	11.0	11.3	11.0	10.6	9.8	9.6	9.8	9.4	9.1	9.4	9.0	9.40
	25	10.2	10.8	10.8	11.1	10.2	10.0	9.4	9.0	9.0	9.0	9.0	8.6	9.03
	26	12.4	12.5	12.6	11.2	11.2	10.9	9.8	10.1	10.0	9.6	8.8	8.0	10.34
	27	8.2	10.1	10.2	10.3	10.8	9.6	10.0	9.9	9.3	8.8	9.0	9.0	9.01
	28	10.1	10.9	10.3	10.0	9.4	9.0	9.3	9.0	9.2	9.1	9.3	9.0	9.23
	29	11.2	11.1	10.1	9.6	10.2	10.4	10.1	9.5	8.6	9.5	9.0	9.3	9.35
	30	10.6	11.1	11.0	10.4	10.7	10.1	9.2	9.3	9.0	8.7	9.1	9.1	9.42
Hourly Means.		8.78	9.50	10.31	10.50	10.35	9.94	9.69	9.54	9.33	9.21	9.19	9.08	9.30

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER. 1	189	194	189	189	190	193	203	200	209	190	207	191	—
2	169	168	176	179	178	184	194	203	213	228	221	208	—
3	164	174	184	170	172	184	198	208	217	212	213	204	—
4	174	177	179	182	183	186	197	208	212	220	213	201	—
5	183	184	183	185	189	194	209	226	236	234	236	230	—
6	186	187	190	191	189	198	208	221	230	232	227	222	—
7	184	184	185	189	193	196	206	217	224	235	239	231	—
8	187	188	189	191	193	198	212	224	234	242	243	239	—
9	185	187	186	192	193	199	215	236	245	258	262	252	—
10	184	189	194	198	196	211	217	229	241	248	253	266	—
11	171	184	186	179	183	191	202	208	218	220	222	218	—
12	189	180	182	184	188	192	194	200	214	216	222	207	—
13	179	179	187	183	185	188	195	201	212	215	211	205	—
14	179	186	186	188	187	193	206	217	222	226	236	231	—
15	197	201	193	202	197	202	218	229	226	240	236	233	—
16	166	169	170	180	182	187	199	207	207	215	209	191	—
17	176	178	184	184	187	192	204	210	220	221	218	215	—
18	181	184	194	193	196	200	208	218	224	229	233	227	—
19	184	186	188	189	192	193	204	213	221	231	229	224	—
20	178	181	182	184	186	185	192	201	208	214	222	217	—
21	189	190	193	194	195	197	204	215	226	231	231	224	—
22	185	185	189	188	190	194	209	227	237	239	250	229	—
23	171	176	176	177	181	184	194	206	208	213	217	215	—
24	188	189	189	212	190	189	192	189	199	207	208	209	—
25	176	178	182	184	191	197	208	220	224	230	240	244	—
26	160	160	157	188	161	164	151	141	118	123	124	153	—
27	137	150	149	148	151	155	160	164	170	173	183	191	—
28	147	149	173	154	168	158	164	164	159	160	159	159	—
29	156	158	165	164	163	165	166	178	190	198	205	201	—
30	160	170	163	165	163	167	173	179	194	193	189	184	—
Hourly Means.	175.8	178.8	181.4	183.5	183.7	187.9	196.7	205.3	211.9	216.4	218.6	214.0	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER. 1	171	172	168	150	135	143	131	141	157	155	176	165	175.3
2	208	193	174	174	170	168	179	161	161	174	156	164	183.5
3	198	193	180	171	170	164	160	162	174	168	171	175	182.8
4	184	188	182	179	174	176	179	180	179	179	178	184	187.3
5	216	212	207	187	182	185	183	180	182	180	182	184	198.7
6	213	198	190	184	184	181	182	180	180	181	182	183	196.6
7	220	205	199	193	188	185	184	184	184	185	184	189	199.3
8	233	218	203	203	198	192	191	189	188	188	184	182	204.5
9	238	227	212	204	201	194	188	178	169	171	184	180	206.5
10	216	211	187	174	159	160	165	193	170	171	169	172	198.9
11	205	193	183	179	174	177	181	173	191	179	171	191	190.8
12	186	176	167	173	176	179	178	179	177	178	174	180	187.1
13	194	182	170	173	170	168	171	169	170	170	177	179	184.7
14	217	207	189	185	187	189	188	190	185	179	180	190	197.6
15	211	189	166	171	179	177	174	177	174	172	198	183	197.7
16	185	170	170	165	163	158	141	146	159	160	166	175	176.7
17	201	192	177	167	167	171	170	171	174	176	179	178	188.0
18	215	198	187	174	175	178	178	176	180	179	176	181	195.2
19	217	208	200	194	191	192	189	183	179	173	176	174	197.1
20	208	196	186	181	181	184	186	184	183	183	185	187	191.4
21	211	194	185	185	179	179	176	180	183	186	187	183	196.5
22	207	170	141	165	166	167	166	167	168	171	170	174	189.8
23	212	197	187	188	188	188	184	179	177	180	185	181	190.2
24	189	156	150	155	161	161	156	150	151	170	160	183	179.3
25	244	230	207	189	190	186	193	202	203	198	198	174	203.7
26	132	102	99	80	92	94	102	89	113	103	123	137	127.8
27	179	163	161	156	134	140	119	107	126	140	136	143	151.5
28	160	141	128	127	142	126	132	141	136	150	155	160	150.5
29	184	174	160	156	143	152	143	156	162	139	147	148	165.5
30	180	172	151	146	135	140	145	153	158	170	156	160	165.3
Hourly Means.	201.1	187.6	175.5	170.9	168.5	168.5	167.1	167.3	169.8	170.3	172.2	174.6	185.3

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	302	300	303	305	303	299	298	307	300	301	290	294	—
	2	312	311	305	305	306	301	307	316	319	311	312	310	—
	3	318	316	304	312	311	300	299	295	295	293	295	305	—
	4	306	305	303	300	300	295	295	301	295	284	288	294	—
	5	306	305	304	300	299	293	288	282	276	279	282	294	—
	6	302	301	300	299	299	290	290	299	289	292	298	312	—
	7	312	311	310	308	306	299	297	301	298	291	286	295	—
	8	316	316	314	313	311	306	305	308	306	300	300	306	—
	9	320	318	318	316	314	311	308	299	297	294	296	302	—
	10	313	311	308	306	309	296	298	311	314	312	304	295	—
	11	318	311	311	316	312	306	308	324	322	328	333	332	—
	12	320	325	325	323	320	315	324	333	332	335	328	332	—
	13	323	322	318	321	319	317	319	316	311	306	306	311	—
	14	318	316	316	316	317	314	320	324	320	313	299	298	—
	15	313	312	316	315	318	311	315	317	326	318	311	315	—
	16	328	326	323	316	315	311	311	313	315	313	316	326	—
	17	319	318	315	316	315	311	311	308	297	296	305	301	—
	18	316	316	309	310	310	309	316	317	312	300	294	295	—
	19	316	314	313	312	311	309	310	320	316	310	304	301	—
	20	328	326	324	323	322	318	320	317	309	299	294	297	—
	21	319	317	316	315	315	311	316	311	305	305	303	308	—
	22	320	320	317	317	316	309	310	308	302	301	289	295	—
	23	322	321	320	320	318	313	318	324	322	311	296	299	—
	24	322	322	321	313	322	317	327	341	331	320	305	295	—
	25	319	319	316	316	313	311	313	315	308	298	293	286	—
	26	347	338	338	323	328	320	332	345	353	338	326	306	—
	27	332	326	327	331	332	331	329	326	317	311	302	302	—
	28	327	327	315	329	324	327	327	337	335	327	326	322	—
	29	326	326	323	324	327	327	331	322	312	305	298	289	—
	30	327	322	328	327	329	327	331	330	316	301	303	304	—
Hourly Means.		318.9	317.3	315.3	314.9	314.7	310.1	312.4	315.6	311.7	306.4	302.7	304.0	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	309	305	310	320	328	327	332	323	320	317	309	313	309.0
	2	305	307	313	314	319	324	320	327	323	317	324	322	313.8
	3	305	305	303	308	311	317	319	316	312	311	311	305	306.9
	4	297	287	291	296	302	307	308	309	310	311	311	306	300.0
	5	298	292	297	308	311	306	306	308	308	308	306	305	298.4
	6	317	314	302	306	311	316	316	317	317	317	316	315	305.6
	7	301	300	293	311	321	322	322	322	322	320	320	317	307.7
	8	319	327	322	318	322	326	323	322	323	322	322	322	315.4
	9	313	318	313	313	316	320	322	325	327	323	316	315	313.1
	0	315	319	317	311	329	331	327	313	322	320	319	317	313.2
	1	333	332	327	322	327	329	327	330	322	327	330	321	322.8
	2	335	333	329	327	328	327	326	326	326	324	326	322	326.7
	3	316	317	319	322	324	328	327	327	326	323	319	317	318.9
	4	302	308	318	322	328	331	329	326	327	328	325	319	318.1
	5	325	328	335	332	331	330	330	326	327	327	314	321	321.4
	6	332	334	333	286	341	334	344	343	331	327	323	319	323.3
	7	304	301	317	328	330	326	327	326	325	322	319	319	314.8
	8	302	309	312	320	320	320	322	322	322	322	323	318	313.2
	9	300	295	304	317	326	326	328	332	334	335	332	333	316.6
	20	300	303	308	316	321	322	322	324	323	323	322	321	315.9
	21	313	313	309	306	310	316	322	319	320	319	319	321	313.7
	22	313	329	335	324	324	324	324	325	324	322	324	322	316.4
	23	306	311	320	326	325	325	326	328	328	326	322	324	318.8
	24	300	317	324	331	333	332	332	333	333	322	326	317	322.3
	25	287	295	314	324	326	327	322	317	316	320	322	337	313.1
	26	319	333	337	359	344	347	348	354	343	348	339	331	337.3
	27	302	306	311	318	333	347	348	354	343	332	333	330	326.0
	28	316	326	337	337	327	338	342	337	337	330	326	323	329.1
	29	302	319	337	338	341	338	341	338	336	345	338	334	325.7
	30	303	317	333	340	345	341	341	336	335	327	332	331	326.1
Hourly Means.		309.6	313.3	317.3	320.0	325.1	326.8	327.4	326.8	325.4	323.8	322.3	320.6	316.8

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	9.0	9.1	9.0	9 0	9.3	10.0	8.9	7.2	6.1	6.4	7.2	8.5	—
	2	9.1	9.2	9.1	9.0	9.1	9.3	8.2	6.9	6.4	6.8	8.5	10.8	
	3	8.9	9.1	9.2	9.2	9.2	9.2	8.3	7.3	6.6	7.2	7.7	9.0	—
	4	8.9	9.0	9.2	9.2	9.2	9.6	8.3	6.8	6.0	6.6	8.3	9.8	—
	5	9.3	9.1	9.2	9.1	9.1	9.4	8.4	7.2	6.5	6.5	7.3	8.8	—
	6	9.3	9.3	9.2	9.1	9.1	9.0	8.2	7.2	7.4	7.2	7.5	8.2	—
	7	9.6	9.7	9.6	9.7	9.7	9.8	8.8	6.8	6.1	5.5	5.8	7.1	—
	8	9.4	9.1	9.2	9.2	9.2	10.0	9.0	6.9	6.0	6.1	7.4	8.8	—
	9	9.4	9.7	9.4	9.6	9.7	9.4	8.0	6.8	7.3	7.1	7.6	9.3	—
	10	9.3	9.6	9.4	9.4	9.3	9 1	8.0	7.1	6.9	7.4	8.2	9.1	—
	11	9.3	9.4	9.6	9.6	9.3	9.0	7.7	6.7	6.3	7.1	8.2	9.1	—
	12	9.2	9.3	9.6	9.8	9.6	9.0	7.7	6 5	5.5	5.6	6.5	8.4	—
	13	9.2	9.3	9.2	9.6	9.7	9.0	7.6	6.1	5.9	6.8	8.3	9.2	—
	14	9.0	8.9	8.9	8.6	8.6	8.8	7.6	6.6	6.6	7.8	8.5	9.8	—
	15	8.9	8.9	9.0	8.9	8.9	8.8	7.5	7.1	7.1	7.3	8.5	9.3	—
	16	8.9	8.8	8.8	8.8	8.2	7.8	7.1	7.1	6.9	7.4	8.1	8.9	—
	17	8.9	8.9	8.8	8.8	8.4	8.3	6.8	5.6	6.6	6.9	8.9	10.0	—
	18	9.0	9.1	9.0	8.8	8.8	8.9	8.0	6.6	6.3	6.6	8.3	9.6	—
	19	9.0	9.0	9.1	9.1	9.0	8.9	7.5	6.3	5.9	6.1	7.6	9.1	—
	20	9.1	9.0	8.9	8.9	9.1	9.2	8.1	6.4	5.7	5.3	6.8	9.0	—
	21	8.6	8.8	8.6	8.8	8.6	9.0	7.9	6.6	5.6	6.1	6.1	9.3	—
	22	8.9	8.9	8.8	8.8	8.5	8.5	7.3	6.5	6.3	6.6	8.2	9.8	—
	23	8.4*	7.1*	7.1*	7.5*	6.4*	6.2*	6.2*	6.6	7.3	6.1	8.0	9.7	—
	24	8.6	7.7	8.4	7.8	8.3	7.8	7.3	7.3	7.2	7.2	7.8	9.3	—
	25	8.9	9.0	9.0	9.0	8.9	8.8	8.1	7.6	7.4	7.4	7.7	8.8	—
	26	8.9	9.1	9.1	8.9	8.9	8.8	7.8	7.3	6.9	7.3	8.4	9.8	—
	27	8.8	9.1	9.2	9.0	8.8	8.9	8.1	7.8	8.1	8.3	9.4	10.1	—
	28	8.8	8.9	8.9	8.6	8.5	7.8	6.9	6.9	7.3	7.8	8.5	10.1	—
	29	9.1	9.1	8.9	8.8	8.5	7.5	6.0	5.4	5.5	6.7	8.6	9.6	—
	30	8.8	8.8	8.5	8.3	8.1	6.6	5.9	6.6	7.4	8.2	9.4	10.1	—
	31	8.4	9.2	9.3	9.0	8.8	8.9	6.4	5.3	5.7	6.7	8.6	10.0	—
Hourly Means.		9.00	9.01	9.01	8.96	8.86	8.75	7.66	6.75	6.54	6.84	7.93	9.30	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	9.6	10.1	9.8	9.2	9.6	9.6	9.4	9.0	9.1	9.0	9.0	9.0	8.84
	2	12.1	12.1	11.0	10.0	9.6	9.7	9.3	9.4	9 2	8.9	8.9	9.0	9.23
	3	10.0	10.5	10.1	9.7	9.8	9.9	9.7	9.4	9.3	9.1	9.1	8.9	9.02
	4	11.0	11.3	10.9	10.8	10.4	9.9	9.8	9.8	9.6	9.3	9.2	9.2	9.25
	5	10.5	11.4	11.6	11.2	10.5	10.0	9.8	9.8	9.4	9.3	9.1	9.0	9.23
	6	9.2	9.9	10.9	10.7	10.0	9.7	9.6	9.7	9.7	9.4	9.4	9.3	9.09
	7	8.3	8.9	9.8	10.0	9.7	9.7	9.4	9.3	9.3	9.3	9.1	9.6	8.78
	8	10.5	11.0	11.2	10.7	10.5	10.0	9.6	9.3	9.4	9.3	9.3	9.3	9.18
	9	10.7	11.4	11.4	11.0	10.4	9.8	9.4	9.2	9.2	9.0	9.1	9.1	9.29
	10	10.1	10.6	10.5	10.4	10.0	9.8	9.6	9.3	9.4	9.3	9.1	9.6	9.19
	11	10.6	11.0	11.0	10.4	9.6	9.2	9.0	8.9	9.0	9.0	9.0	9.1	9.05
	12	11.2	12.2	11.6	11.3	10.4	9.9	8.9	9.1	8.9	8.9	9.0	10.0	9.09
	13	10.0	10.2	10.5	10.0	9.6	9.4	9.1	9.0	9.1	9.2	9.1	8.8	8.91
	14	10.4	10.9	10.9	10.5	9.9	9.8	9.6	8.9	9.0	9.0	9.0	8.9	9.02
	15	10.1	10.1	10.5	10.1	9.8	9.3	9.4	9.4	9.3	8.6	8.8	8.8	8.93
	16	9.2	9.9	10.4	10.4	10.4	10.0	9.8	9.6	9.3	9.0	8.9	8.9	8.86
	17	10.1	10.1	11.0	10.7	10.2	9.8	9.6	9.3	8.9	8.9	9.1	9.0	8.90
	18	10.0	10.2	10.4	9.9	9.7	9.6	9.6	9.2	9.2	9.1	9.0	9.0	8.92
	19	10.5	10.7	10.4	9.7	9.9	9.6	9.4	9.1	9.2	9.0	9.0	9.0	8.84
	20	10.7	11.0	11.0	10.1	9.7	9.2	9.0	8.8	8.8	8.8	8.8	8.8	8.76
	21	10.7	11.2	11.4	10.9	10.5	9.9	9.6	9.6	9.2	9.0	9.0	8.9	8.91
	22	11.2	11.8	11.7	11.4	11.2	10.7*	10.8*	10.0*	8.4*	8.2*	8.6*	8.6*	9.15
	23	11.2	10.1	10.5	9.9	10.5	9.6	9.4	9.0	9.1	8.8	8.9	8.0	8.40
	24	10.8	11.6	10.6	10.4	10.0	9.7	9.4	9.2	9.1	8.9	8.9	9.0	8.85
	25	10.0	10.8	11.2	11.2	10.8	9.9	9.7	9.4	9.3	8.9	8.9	9.0	9.15
	26	10.5	11.3	11.0	11.2	11.2	10.0	10.1	9.2	8.0	9.0	8.6	8.3	9.15
	27	11.0	11.4	11.2	11.2	10.0	9.4	9.3	9.0	9.1	8.8	8.6	8.8	9.31
	28	10.7	10.9	10.4	10.0	9.2	9.3	9.2	8.9	8.9	8.8	9.0	9.0	8.89
	29	9.7	9.6	9.6	9.0	8.9	8.9	8.9	8.9	8.9	8.8	9.0	8.9	8.45
	30	10.4	10.4	10.9	10.7	10.0	9.9	9.8	9.2	9.1	8.9	9.0	8.8	8.91
	31	10.1	10.0	9.7	9.3	9.4	9.6	9.3	9.1	9.0	9.1	9.1	9.2	8.72
Hourly Means.		10.36	10.73	10.75	10.39	10.05	9.70	9.50	9.26	9.11	8.99	8.99	8.99	8.98

* From Wild's Magnetometer.

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0. 36900 + THE NUMBERS IN THE TABLE.

OCTOBER. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	182	189	183	184	186	190	200	206	214	214	216	210	—
2	180	181	183	186	189	192	205	216	224	226	225	219	—
3	177	176	182	185	187	193	205	216	221	223	225	225	—
4	191	190	190	192	195	200	207	218	231	241	250	252	—
5	193	194	197	200	203	205	211	222	233	245	257	257	—
6	187	198	200	200	201	202	210	228	235	247	249	248	—
7	188	187	192	186	187	192	199	215	218	223	223	217	—
8	190	195	195	195	200	198	203	204	217	226	230	231	—
9	187	186	187	187	190	195	195	200	212	222	237	238	—
10	185	187	191	193	193	195	201	210	221	232	243	245	—
11	189	192	189	193	193	196	198	205	214	215	214	222	—
12	186	193	188	191	193	195	200	209	222	233	241	242	—
13	182	185	182	187	186	185	190	200	210	198	198	204	—
14	164	172	176	179	177	180	194	206	210	203	217	212	—
15	181	175	180	182	184	181	194	196	207	212	221	217	—
16	184	186	186	186	190	190	199	211	224	230	234	231	—
17	181	182	186	188	191	195	205	227	232	249	246	248	—
18	190	192	194	198	193	195	200	212	217	226	224	222	—
19	193	194	191	191	198	200	209	219	224	231	226	224	—
20	187	187	189	198	198	197	200	210	216	223	229	232	—
21	195	196	198	200	197	200	205	210	222	230	234	234	—
22	202	201	197	200	205	207	218	230	230	238	231	229	—
23	159*	188*	174*	172*	185*	186*	257*	204	208	233	207	219	—
24	185	182	175	195	186	192	188	188	208	210	223	214	—
25	188	185	186	188	188	190	195	206	212	214	227	214	—
26	185	190	186	192	196	199	206	210	223	225	225	220	—
27	156	153	157	165	166	167	172	175	174	181	178	176	—
28	170	169	173	176	175	174	180	181	190	194	190	190	—
29	180	179	181	183	185	189	200	209	220	225	221	213	—
30	186	186	187	191	195	200	212	220	225	228	230	225	—
31	226	176	171	176	176	176	195	208	214	218	210	201	—
Hourly Means.	184.8	185.4	185.4	183.4	189.9	192.1	201.7	208.7	217.0	223.1	225.2	223.6	—

OCTOBER. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	205	186	182	177	167	176	176	181	177	176	174	176	188.6
2	207	198	186	177	175	175	183	175	171	170	176	174	191.4
3	217	205	196	189	186	186	184	185	186	186	187	188	196.3
4	235	213	201	200	196	193	190	192	190	189	189	191	205.7
5	237	219	205	197	194	192	189	190	189	189	192	186	208.2
6	238	222	212	204	198	199	199	198	195	193	192	189	210.2
7	211	200	186	184	184	186	187	188	189	186	190	188	196.1
8	217	204	198	191	192	190	189	186	179	183	180	190	199.3
9	228	211	196	189	186	184	190	190	186	190	188	186	198.3
10	233	216	202	201	200	199	201	200	187	190	194	184	204.3
11	213	204	193	188	190	189	189	189	186	185	182	181	196.2
12	213	207	187	160	162	157	171	158	167	177	178	179	192.0
13	198	189	180	176	172	174	169	174	164	152	158	172	182.7
14	205	194	179	163	167	169	170	175	176	179	180	181	184.5
15	211	198	186	180	179	181	181	179	176	174	179	183	189.0
16	221	205	194	185	181	181	177	185	187	186	186	183	196.8
17	219	212	197	186	186	184	186	185	185	186	187	189	201.3
18	210	194	188	188	191	193	192	190	190	188	192	187	198.6
19	211	208	200	195	187	186	184	183	190	189	190	188	200.5
20	226	214	207	196	192	190	189	189	188	189	190	193	201.2
21	235	219	203	199	194	195	194	194	195	198	198	201	206.1
22	194	183	172	169	154	139	128*	119*	141*	205*	190*	195*	190.7
23	215	176	177	161	213	176	172	186	166	188	176	196	191.4
24	209	183	182	177	176	173	175	175	175	186	186	186	188.7
25	204	197	189	185	185	182	179	172	174	191	184	182	192.4
26	215	212	198	192	184	181	130	115	129	124	143	151	184.6
27	167	161	166	154	155	153	171	159	165	180	174	166	166.3
28	181	178	180	184	183	177	176	176	175	184	182	180	179.9
29	205	199	195	189	184	178	183	180	180	181	184	185	192.8
30	222	200	173	165	171	172	157	152	161	171	169	152	189.6
31	190	185	179	178	182	181	181	180	180	180	183	185	188.8
Hourly Means.	212.6	199.7	190.0	183.2	182.8	180.4	178.8	177.4	177.4	182.1	182.4	182.8	194.0

* From Wild's Magnetometer.

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	322	319	323	323	323	319	329	336	325	314	305	297	—
	2	328	327	325	324	323	322	324	319	308	296	281	278	—
	3	331	329	326	324	324	323	324	319	311	302	294	290	—
	4	326	326	325	323	321	318	322	317	302	284	275	269	—
	5	323	321	319	317	316	313	321	325	317	302	295	291	—
	6	333	329	326	324	324	322	327	327	315	307	300	297	—
	7	337	337	332	336	335	329	339	343	334	323	313	312	—
	8	339	336	336	336	333	333	344	347	333	319	313	307	—
	9	337	338	337	337	336	335	344	337	323	317	304	291	—
	10	337	336	333	332	332	332	338	334	324	313	306	303	—
	11	336	336	336	335	335	335	339	334	322	315	310	306	—
	12	333	330	333	332	332	334	337	335	319	308	292	279	—
	13	331	330	332	331	332	335	340	336	322	316	303	296	—
	14	339	337	332	332	335	331	335	329	319	315	303	301	—
	15	332	333	330	329	329	331	334	335	324	312	303	306	—
	16	332	331	332	333	331	334	333	330	325	319	309	305	—
	17	339	337	335	333	332	335	340	327	321	310	301	297	—
	18	332	331	329	327	331	336	343	341	337	326	315	310	—
	19	335	332	332	332	330	332	340	343	338	327	321	312	—
	20	340	339	338	331	331	335	345	329	321	303	277	263	—
	21	323	322	320	319	320	320	328	331	318	298	288	281	—
	22	323	324	326	324	321	321	324	325	320	307	299	300	—
	23	359*	345*	349*	354*	333*	322*	295*	319	329	305	305	300	—
	24	322	326	325	319	319	317	319	319	302	298	287	286	—
	25	322	324	323	322	322	321	323	319	312	313	306	299	—
	26	331	329	329	327	325	324	327	330	324	317	309	308	—
	27	334	339	336	333	334	335	337	345	351	343	335	332	—
	28	340	340	339	337	339	342	341	340	330	319	310	313	—
	29	334	335	335	335	336	340	340	333	316	301	300	313	—
	30	332	332	332	332	332	332	323	302	294	292	289	295	—
	31	301	327	329	328	327	331	326	319	310	300	299	302	—
Hourly Means.		331.7	331.5	330.8	329.7	328.8	328.7	331.6	329.8	320.8	310.4	301.5	298.0	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	299	312	328	331	337	333	335	333	336	335	334	332	324.2
	2	292	308	329	343	340	336	334	338	340	339	334	334	321.8
	3	300	313	324	328	329	332	334	334	332	332	330	329	321.4
	4	289	310	320	324	327	329	329	329	329	329	327	325	315.6
	5	305	317	329	337	340	338	338	336	337	336	332	333	322.4
	6	302	310	317	331	336	337	335	335	336	337	337	338	324.3
	7	313	317	324	329	333	335	338	338	338	339	339	340	331.4
	8	310	315	321	333	336	337	338	340	343	341	342	336	332.0
	9	294	303	317	328	334	340	337	337	338	336	336	337	328.0
	10	312	324	336	337	336	336	336	336	340	338	336	339	330.3
	11	313	322	332	341	340	341	340	339	338	338	339	337	331.6
	12	294	303	325	350	350	350	343	346	341	335	332	332	327.7
	13	306	314	328	332	340	340	343	340	345	350	344	335	330.0
	14	314	325	337	347	343	342	342	341	337	334	331	331	330.5
	15	312	318	324	334	338	339	339	340	345	344	339	335	329.4
	16	310	318	325	334	336	340	343	340	339	339	340	340	329.9
	17	312	317	326	338	337	339	339	340	340	338	336	335	329.3
	18	313	321	325	328	329	331	333	335	336	337	337	337	330.0
	19	317	320	329	335	340	342	343	345	342	340	340	342	333.7
	20	272	292	308	318	323	325	326	327	327	327	327	325	318.7
	21	283	298	312	319	324	327	327	328	327	327	326	324	316.3
	22	309	320	331	337	340	349	375*	378*	362*	333*	331*	334*	329.7
	23	303	320	319	334	311	329	328	324	330	321	325	317	324.0
	24	298	314	319	323	329	332	329	329	328	324	320	323	317.0
	25	302	306	310	321	329	331	335	338	337	329	331	332	321.1
	26	309	313	321	330	336	348	370	375	369	359	345	340	333.1
	27	332	330	331	341	348	351	342	345	345	336	340	343	339.1
	28	319	322	329	331	336	340	340	339	340	336	334	334	332.9
	29	322	329	334	339	340	342	339	340	340	338	336	334	331.3
	30	299	312	330	337	334	336	342	346	339	334	335	337	323.7
	31	313	317	325	329	325	325	329	330	330	328	326	324	320.8
Hourly Means.		305.4	314.8	324.7	332.9	334.7	337.3	338.7	339.4	338.9	335.8	334.2	333.4	326.8

* From Wild's Magnetometer.

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	9.1	9.1	9.2	9.0	8.8	7.6	7.1	6.7	6.8	8.1	10.0	10.9	—
	2	9.1	9.7	9.0	9.2	8.8	7.7	6.8	6.5	6.5	7.2	8.8	10.8	—
	3	8.8	8.8	9.1	8.9	8.7	8.0	6.3	5.9	5.9	6.4	7.6	8.4	—
	4	9.0	9.0	9.1	8.7	8.8	9.1	7.9	6.5	5.7	6.4	8.1	9.3	—
	5	9.1	9.3	9.3	9.7	9.1	8.7	7.6	6.8	7.0	7.4	9.1	10.6	—
	6	8.9	8.9	8.9	8.8	8.7	7.6	7.0	6.6	6.7	7.7	9.3	10.4	—
	7	9.1	9.1	8.8	8.7	8.2	7.2	6.6	7.4	7.6	8.5	9.1	9.9	—
	8	9.1	9.3	9.0	8.9	8.8	8.3	8.0	7.3	7.4	7.5	8.3	9.2	—
	9	8.7	8.9	8.8	8.5	8.3	8.0	7.5	6.5	6.4	6.7	8.1	9.8	—
	10	8.5	8.8	8.8	8.4	8.3	8.1	7.0	6.2	5.5	5.8	8.8	11.1	—
	11	8.5	8.8	8.7	8.2	7.7	7.6	6.7	6.5	7.6	7.6	9.1	10.1	—
	12	8.5	8.4	8.3	8.1	8.2	7.9	7.3	6.8	7.3	7.9	9.1	10.1	—
	13	8.4	8.5	8.3	8.1	7.9	8.0	7.7	8.3	8.8	9.0	9.7	9.9	—
	14	8.8	8.5	8.3	8.5	7.9	6.7	5.7	5.9	7.3	9.1	9.8	11.1	—
	15	8.5	8.5	8.5	8.5	8.0	6.7	5.5	4.8	5.4	6.6	8.2	10.1	—
	16	8.8	8.8	8.8	8.7	8.3	7.2	6.0	5.7	5.6	6.6	8.8	10.6	—
	17	8.5	8.5	8.5	8.3	8.2	7.5	6.3	5.9	6.2	7.0	8.1	9.7	—
	18	8.7	8.7	8.7	8.4	8.0	8.0	6.5	6.2	5.9	6.4	7.3	9.1	—
	19	8.9	8.9	8.5	8.5	8.3	7.1	7.0	6.4	6.4	7.3	8.4	9.7	—
	20	8.4	8.8	8.8	8.5	8.4	7.3	7.5	6.0	6.4	7.4	8.8	10.0	—
	21	8.2	8.2	8.3	8.3	8.0	7.7	6.5	6.0	6.6	7.6	8.5	10.0	—
	22	8.3	9.9	8.1	8.1	8.8	7.9	7.1	6.7	6.7	7.5	8.2	9.3	—
	23	9.1	8.8	8.3	8.8	8.2	7.7	7.2	7.1	7.6	8.0	9.1	9.7	—
	24	8.7	8.8	8.8	8.9	8.4	7.6	6.6	6.5	7.2	7.9	8.8	9.9	—
	25	9.1	9.0	8.9	8.7	8.3	7.6	7.4	7.3	7.7	8.9	10.3	11.3	—
	26	8.8	8.9	8.8	8.7	8.3	7.5	6.5	6.4	7.0	8.1	9.2	10.5	—
	27	8.7	8.7	8.7	8.7	8.3	7.1	5.9	6.0	6.6	7.7	9.3	11.1	—
	28	8.7	9.1	8.7	8.4	8.1	7.0	6.4	6.5	7.1	7.7	8.5	9.6	—
	29	8.5	8.5	8.8	8.0	7.6	7.3	7.0	6.8	7.5	7.6	8.9	9.5	—
	30	8.3	8.8	8.8	8.7	8.3	6.7	6.5	7.1	7.2	8.0	8.4	9.8	—
														—
Hourly Means.		8.73	8.87	8.72	8.60	8.32	7.61	6.84	6.51	6.79	7.52	8.79	10.05	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	10.8	10.8	10.7	10.0	9.8	9.6	9.6	9.3	9.1	8.9	9.0	9.1	9.13
	2	11.4	11.3	10.3	9.8	9.3	9.5	9.5	9.1	9.1	8.9	8.8	8.8	9.00
	3	10.1	11.7	11.7	10.9	10.5	9.6	9.6	9.3	8.1	8.8	9.0	9.0	8.80
	4	9.9	10.4	9.8	9.3	9.3	9.7	9.3	9.3	9.1	8.9	8.9	9.1	8.78
	5	11.3	10.7	10.1	9.9	9.2	9.1	9.1	8.8	8.9	8.8	8.8	8.9	9.05
	6	10.3	10.6	10.5	9.6	9.5	9.3	9.3	9.2	9.2	9.1	9.0	9.1	8.93
	7	10.1	10.4	9.9	9.2	9.6	9.6	9.5	9.3	9.3	9.3	9.3	9.0	8.95
	8	9.7	9.7	9.6	9.3	9.6	9.6	9.2	9.0	9.0	8.3	8.3	8.5	8.79
	9	10.4	10.8	11.1	10.9	10.4	9.7	8.8	8.5	8.7	8.4	8.4	8.4	8.78
	10	11.5	11.9	12.1	11.3	11.2	10.4	10.1	8.1	8.1	8.7	8.7	8.4	8.99
	11	11.1	11.1	10.9	11.1	11.3	10.1	9.3	9.2	9.5	8.7	8.8	8.8	9.04
	12	10.5	10.0	9.8	9.9	10.3	9.5	9.5	9.1	8.7	8.5	8.5	8.7	8.79
	13	9.6	9.5	9.5	9.3	9.6	9.6	9.3	9.2	9.1	8.8	8.7	8.8	8.90
	14	11.2	11.2	10.9	10.6	9.5	9.2	9.2	9.0	9.0	8.9	8.8	8.8	8.91
	15	11.1	10.8	10.0	9.5	9.3	9.2	9.2	8.9	9.0	8.8	8.8	8.9	8.45
	16	11.2	11.2	10.7	9.8	9.1	8.9	9.0	9.0	9.0	8.7	8.8	8.7	8.67
	17	10.9	10.9	10.6	9.9	9.7	9.8	9.5	9.0	9.0	9.0	8.9	8.8	8.70
	18	10.5	10.6	10.6	10.1	9.9	9.7	9.5	9.3	9.3	9.2	8.8	8.8	8.68
	19	10.8	11.4	11.4	11.2	11.3	10.6	10.0	9.6	9.3	9.5	9.1	8.8	9.10
	20	11.5	11.5	11.6	11.5	10.4	9.1	9.3	9.1	8.8	8.7	8.3	8.2	8.93
	21	10.9	11.1	11.1	11.3	12.2	9.5	8.1	7.6	7.5	8.3	7.9	8.8	8.68
	22	10.5	10.4	11.1	11.6	10.7	10.3	9.2	9.6	9.3	8.8	8.8	8.9	8.99
	23	10.5	10.7	10.9	10.6	10.0	9.9	9.2	9.1	9.3	9.0	8.9	8.9	9.03
	24	10.1	10.0	10.4	9.9	9.8	9.7	9.2	9.1	9.0	8.5	8.8	9.0	8.82
	25	11.6	11.4	10.6	9.9	9.5	9.2	8.9	8.8	9.0	8.9	8.9	9.0	9.18
	26	11.2	11.1	10.5	9.6	9.2	9.0	8.8	8.9	8.8	8.9	8.9	8.8	8.85
	27	12.2	12.0	11.1	10.0	9.6	9.3	9.2	9.1	8.9	8.4	8.8	8.8	8.93
	28	10.5	10.4	9.9	10.1	9.6	9.5	9.2	8.9	8.9	8.9	8.9	8.3	8.70
	29	10.9	11.6	10.3	9.9	10.0	9.2	9.1	8.9	8.3	8.3	8.2	8.2	8.70
	30	9.5	8.8	8.8	8.9	9.0	9.6	9.1	9.1	9.0	9.1	8.9	9.0	8.56
Hourly Means.		10.73	10.80	10.55	10.16	9.95	9.57	9.26	9.01	8.91	8.80	8.76	8.78	8.86

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	187	188	193	192	193	196	203	213	220	222	222	215	—
	2	189	184	186	191	202	204	213	227	235	236	235	228	—
	3	202	210	203	202	206	213	219	227	233	243	238	229	—
	4	190	193	198	200	200	198	202	215	224	228	228	224	—
	5	196	192	193	191	192	195	200	211	216	223	219	219	—
	6	200	196	198	201	203	204	210	225	236	242	241	233	—
	7	202	205	202	204	206	206	212	220	231	227	227	225	—
	8	206	203	206	206	205	209	209	219	231	240	240	236	—
	9	190	199	199	205	199	206	202	205	205	215	215	208	—
	10	203	210	206	205	203	207	202	205	217	228	224	224	—
	11	173	177	181	183	188	189	191	198	209	211	219	215	—
	12	190	189	189	186	193	195	200	203	209	214	219	215	—
	13	192	194	194	195	194	200	204	212	216	221	219	212	—
	14	197	200	208	199	198	204	213	220	227	221	225	211	—
	15	194	193	191	194	198	202	210	219	233	243	243	232	—
	16	186	195	193	196	197	200	208	218	227	234	233	229	—
	17	195	195	197	200	202	205	211	219	231	239	243	242	—
	18	195	193	196	190	189	185	194	206	215	219	219	207	—
	19	186	187	191	191	192	202	204	214	230	229	216	220	—
	20	184	188	188	191	190	199	194	273	206	205	202	193	—
	21	180	216	186	190	192	193	191	204	200	210	208	210	-
	22	153	181	171	170	176	155	150	154	154	162	168	162	—
	23	163	177	172	172	170	172	172	189	201	209	203	200	-
	24	178	176	173	172	176	176	182	185	197	194	193	186	—
	25	172	179	176	176	179	181	191	204	214	215	211	206	—
	26	181	181	185	181	181	184	193	205	215	219	217	208	—
	27	188	189	192	193	191	195	201	214	225	222	212	209	—
	28	199	195	202	203	210	216	224	224	234	236	236	226	—
	29	196	194	191	208	205	217	216	214	221	229	219	224	—
	30	175	185	177	179	183	199	203	210	218	211	207	200	—
Hourly Means.		188.1	192.1	191.2	192.2	193.8	196.9	200.8	211.7	217.7	221.6	220.0	214.9	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	207	200	191	189	191	194	192	191	196	197	192	187	198.8
	2	222	219	214	213	207	204	201	200	200	197	197	204	208.7
	3	242	224	210	211	200	201	199	196	198	183	190	192	211.3
	4	215	204	201	195	200	195	197	195	197	195	191	190	203.1
	5	218	210	201	195	197	200	200	198	195	199	204	200	202.7
	6	229	219	210	206	206	205	206	204	201	200	201	202	211.6
	7	222	218	208	193	200	201	202	205	203	202	203	205	209.5
	8	235	227	217	208	206	209	206	199	202	207	193	208	213.6
	9	208	200	204	181	181	178	192	191	192	193	191	210	198.6
	10	214	198	181	169	148	138	133	148	174	147	161	163	187.8
	11	219	210	203	192	179	181	183	180	179	192	182	186	192.5
	12	208	199	194	192	184	181	187	184	191	191	190	191	195.6
	13	197	191	191	196	197	200	201	202	202	200	198	200	201.2
	14	205	203	193	177	181	184	191	189	191	191	191	192	200.5
	15	213	204	198	193	191	189	191	190	186	185	186	187	202.7
	16	218	210	203	200	199	197	197	194	191	193	193	194	204.4
	17	228	219	212	209	205	204	206	200	200	195	200	192	210.4
	18	195	187	181	179	181	182	182	187	187	190	191	192	193.4
	19	215	210	203	203	181	179	172	170	182	167	178	180	195.9
	20	182	184	170	167	167	172	174	178	185	170	185	184	188.8
	21	208	195	200	194	123	124	143	137	143	134	162	181	180.2
	22	156	162	159	149	162	147	174	162	168	172	166	162	162.3
	23	186	183	172	167	174	176	176	169	164	169	189	191	179.8
	24	187	186	175	173	176	176	176	173	176	181	173	170	179.3
	25	195	187	182	179	176	173	176	175	174	176	176	177	185.4
	26	195	186	187	188	187	187	184	185	187	184	183	187	191.3
	27	204	204	201	197	198	197	196	191	186	194	191	195	199.4
	28	210	202	192	194	192	194	191	187	188	184	181	198	204.9
	29	218	179	187	189	164	163	173	167	178	165	190	181	195.3
	30	200	192	190	182	166	157	168	173	172	176	181	177	186.7
Hourly Means.		208.2	200.4	194.3	189.3	184.0	182.9	185.6	184.0	186.3	184.3	187.0	189.3	196.5

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	333	332	329	330	332	335	331	316	307	296	286	295	—
	2	329	330	329	323	320	325	324	315	301	293	280	276	—
	3	317	313	317	317	316	316	321	324	322	316	304	300	—
	4	325	322	321	320	320	321	330	330	328	320	310	309	—
	5	323	324	324	325	325	322	330	327	323	310	300	291	—
	6	321	322	321	320	319	321	321	313	308	301	301	305	—
	7	322	322	321	321	320	322	315	303	301	298	292	293	—
	8	319	320	318	318	318	318	317	310	304	298	294	296	—
	9	333	327	326	322	326	326	332	327	324	312	301	302	—
	10	321	317	318	322	322	324	335	348	337	318	302	302	—
	11	338	337	335	336	337	343	350	347	338	330	317	315	—
	12	343	343	343	345	341	343	343	339	332	324	323	327	—
	13	340	340	340	340	340	337	337	323	328	325	323	326	—
	14	331	330	328	331	333	334	329	320	310	308	308	317	—
	15	332	331	332	331	330	336	337	329	311	290	284	286	—
	16	332	327	328	327	328	332	331	327	323	316	306	304	—
	17	335	332	331	330	329	332	334	327	317	303	300	305	—
	18	336	337	332	337	337	337	338	339	327	322	313	321	—
	19	339	339	336	336	336	332	330	322	309	311	319	317	—
	20	339	337	336	333	334	335	337	324	333	333	328	326	—
	21	339	321	338	336	334	338	343	338	337	326	320	310	—
	22	346	332	336	343	334	352	359	353	340	311	294	297	—
	23	338	331	335	335	337	337	336	323	318	318	318	321	—
	24	336	337	337	338	338	339	342	341	335	334	332	340	—
	25	342	339	340	340	340	342	338	335	324	312	310	316	—
	26	333	333	332	335	335	338	335	332	323	316	313	316	—
	27	329	329	329	329	331	333	329	314	310	304	300	292	—
	28	325	327	326	325	323	325	325	324	316	314	308	309	—
	29	330	329	332	327	328	326	335	341	332	326	331	325	—
	30	337	332	335	335	336	331	327	327	325	326	325	331	—
Hourly Means.		332.1	329.7	330.2	330.2	330.0	331.7	333.0	327.9	321.4	313.7	308.1	309.0	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	312	321	327	332	330	327	328	329	328	326	328	330	322.5
	2	288	300	314	318	318	320	321	321	321	323	324	318	313.8
	3	291	297	308	315	324	324	326	328	330	332	329	324	317.1
	4	310	316	318	323	321	322	324	327	326	327	329	329	322.0
	5	298	308	317	323	323	322	323	324	325	324	321	323	319.0
	6	312	309	318	322	324	324	323	324	324	325	324	324	317.8
	7	304	308	314	326	321	320	320	320	319	321	323	321	314.5
	8	309	321	327	327	326	325	325	330	326	323	334	321	317.7
	9	302	313	317	328	331	332	326	325	324	324	325	316	321.7
	10	315	325	338	350	364	365	362	356	344	355	348	344	334.7
	11	320	332	338	348	359	358	353	352	352	346	348	345	340.6
	12	331	342	345	343	348	352	348	348	343	343	343	342	340.6
	13	334	333	331	327	327	328	329	329	330	332	332	330	331.7
	14	321	324	327	338	341	336	335	334	334	334	334	332	327.9
	15	304	318	329	333	335	336	336	337	337	337	335	333	325.0
	16	317	327	333	339	339	336	337	338	338	337	337	336	329.0
	17	317	327	333	337	340	338	337	339	338	341	337	338	329.0
	18	330	331	333	336	336	337	338	337	338	338	338	338	333.6
	19	320	320	321	322	340	345	344	351	340	349	343	338	331.6
	20	328	323	330	337	342	343	339	336	337	343	329	337	334.1
	21	306	312	316	322	360	376	375	363	358	359	347	324	337.4
	22	302	311	313	328	329	338	329	333	333	332	337	340	330.1
	23	325	324	334	338	336	337	336	340	343	338	329	327	331.4
	24	349	346	346	348	346	345	344	344	343	342	343	345	341.3
	25	324	331	336	341	343	344	341	340	339	337	338	335	334.5
	26	324	328	331	332	336	335	336	336	334	335	335	331	330.6
	27	294	308	317	324	329	330	331	333	335	331	331	329	321.7
	28	319	329	333	335	335	333	334	337	336	337	339	332	326.9
	29	322	337	343	342	353	357	342	345	345	346	333	336	336.0
	30	329	333	335	335	344	348	342	340	340	338	336	337	334.3
Hourly Means.		315.2	321.8	327.4	332.3	336.7	337.8	336.1	336.5	335.3	335.8	334.3	331.8	328.3

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1° 40′.0 + THE NUMBERS IN THE TABLE.

DECEMBER. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	9.4	9.2	9.0	8.9	8.4	7.6	6.1	5.9	6.1	6.8	8.1	9.2	—
2	9.2	9.1	9.3	9.0	8.4	8.0	6.3	5.4	6.0	7.1	8.8	11.0	—
3	9.0	8.9	8.9	8.9	8.8	8.1	6.7	4.6	4.5	5.6	7.1	8.8	—
4	9.0	9.1	9.0	8.8	8.8	7.8	6.7	5.7	5.4	6.6	8.2	9.1	—
5	8.8	8.4	8.5	8.5	8.4	7.8	6.7	6.3	5.9	6.5	7.3	8.3	—
6	8.6	8.5	8.4	8.4	8.4	7.7	6.7	5.5	5.2	5.5	6.9	8.3	—
7	8.0	8.1	8.5	8.4	8.3	7.8	7.2	7.7	7.7	9.0	9.6	11.2	—
8	8.2	8.3	8.4	8.3	8.0	7.4	6.8	6.9	7.7	8.6	9.2	9.8	—
9	8.4	8.3	8.3	8.0	7.8	7.2	7.2	7.5	8.3	8.6	8.6	8.5	—
10	8.5	8.5	8.3	8.2	8.1	7.5	7.4	7.7	8.3	8.9	9.3	9.9	—
11	8.4	8.3	8.3	8.2	7.8	7.7	8.0	8.5	9.1	9.8	10.4	11.0	—
12	8.6	8.6	8.4	8.3	8.3	7.6	7.2	7.4	7.6	9.0	10.0	10.2	—
13	8.5	8.5	8.3	8.2	8.0	7.2	6.1	5.7	6.1	7.5	9.0	10.0	—
14	8.3	8.3	8.5	8.3	7.8	7.2	6.0	5.5	6.4	8.0	9.2	9.9	—
15	8.6	8.9	8.6	8.4	8.1	6.6	6.0	5.5	5.9	7.5	8.8	10.0	—
16	9.1	8.9	8.9	8.6	8.3	7.1	6.0	5.7	6.4	8.0	9.3	10.6	—
17	8.3	8.0	8.0	7.1	7.4	5.9	6.1	6.6	7.5	9.0	10.4	12.2	—
18	8.3	8.2	8.0	7.5	7.1	7.1	4.6	5.1	5.5	6.5	8.4	10.0	—
19	8.9	8.9	8.6	8.8	8.2	7.7	6.6	6.8	7.1	7.6	8.2	9.0	—
20	8.8	8.8	8.5	8.5	8.4	7.7	7.3	7.7	7.7	7.8	8.5	9.2	—
21	8.6	8.6	8.3	8.4	8.3	8.0	7.4	7.2	7.3	7.4	7.5	8.1	—
22	8.9	8.9	8.5	8.0	7.4	6.9	6.6	6.1	6.7	7.7	9.3	9.7	—
23	8.5	8.5	8.3	8.0	7.8	6.7	6.3	6.8	7.3	8.4	9.8	10.7	—
24	8.6	8.4	8.4	8.4	8.2	7.4	6.6	6.6	6.9	7.5	8.2	8.9	—
25	8.4	8.3	8.3	8.3	8.1	7.2	6.6	7.1	7.8	8.5	9.2	9.3	—
26	8.9	8.9	9.0	8.8	8.4	7.7	7.3	8.5	8.9	9.4	9.0	8.4	—
27	8.0	9.1	8.6	8.4	8.0	6.8	6.6	6.6	7.8	7.7	8.9	9.6	—
28	8.9	8.6	8.4	8.2	8.2	7.2	6.6	7.7	8.4	9.6	9.7	10.7	—
29	8.5	8.8	8.2	8.4	8.4	8.0	7.1	7.7	8.3	9.6	9.4	10.2	—
30	8.6	8.6	8.6	8.5	8.3	7.1	5.5	5.4	6.3	7.6	9.0	9.9	—
31	8.8	8.5	8.5	8.3	8.3	7.1	6.6	6.6	6.7	7.7	8.9	9.2	—
Hourly Means.	8.63	8.61	8.51	8.35	8.14	7.38	6.61	6.58	6.99	7.90	8.85	9.71	—

DECEMBER. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	10.0	10.0	10.0	9.9	9.4	9.6	9.4	9.3	9.2	9.2	9.0	9.1	8.70
2	12.3	12.1	11.4	10.5	10.1	9.8	9.4	8.8	9.3	8.9	8.9	8.9	9.08
3	10.7	11.2	10.7	10.1	9.3	9.7	9.4	9.2	9.2	9.0	8.9	8.9	8.59
4	10.0	10.6	10.5	9.9	9.7	9.2	9.3	9.1	9.2	9.0	8.9	8.8	8.68
5	10.2	11.2	11.0	10.6	10.0	9.3	9.7	9.4	9.4	9.0	8.9	8.6	8.70
6	9.4	10.8	10.8	11.2	10.5	10.0	9.6	9.2	9.3	9.0	8.8	8.2	8.54
7	11.8	11.7	11.3	10.8	10.2	10.0	10.0	9.2	9.2	8.6	8.8	8.4	9.23
8	10.5	10.6	10.5	10.6	9.9	9.7	9.3	9.1	8.9	8.9	8.5	8.5	8.86
9	9.3	9.3	9.3	9.7	9.8	9.6	9.3	9.2	9.2	8.9	8.8	8.6	8.65
10	9.8	9.4	9.1	9.1	9.3	9.2	9.2	9.1	9.0	8.9	8.6	8.4	8.74
11	11.5	10.9	9.9	9.1	9.3	9.4	9.4	9.2	9.2	9.1	9.0	8.6	9.17
12	9.8	10.0	9.3	8.9	9.2	9.3	9.4	9.3	9.2	8.9	8.6	8.5	8.82
13	11.2	11.4	11.2	10.9	10.5	9.9	9.6	10.0	9.3	8.9	8.5	8.5	8.88
14	9.9	10.4	10.6	10.4	9.4	9.2	9.1	8.8	8.8	8.8	8.9	8.8	8.60
15	10.5	10.6	10.8	10.5	9.7	9.1	9.1	8.9	9.1	9.0	8.9	9.1	8.68
16	12.2	12.2	11.3	10.8	10.2	8.4	9.1	9.0	9.1	8.5	8.4	8.1	8.93
17	13.2	13.7	12.6	11.0	10.2	9.8	9.9	9.3	9.2	8.4	8.9	7.7	9.18
18	10.9	10.6	10.5	10.6	10.1	9.6	9.6	9.7	9.3	8.9	8.8	8.9	8.49
19	10.7	10.6	11.6	11.2	10.6	9.0	9.3	9.2	8.6	9.1	8.3	8.4	8.88
20	9.1	10.0	10.6	10.6	10.1	9.8	9.4	9.2	8.6	9.0	8.9	8.9	8.88
21	8.3	9.0	9.6	9.9	10.0	9.8	9.8	10.0	9.0	8.9	8.1	8.9	8.60
22	9.9	9.2	10.7	11.2	11.3	9.9	9.1	8.1	9.4	8.9	8.4	8.2	8.71
23	11.2	10.8	10.1	9.8	9.9	9.7	9.4	9.1	9.1	8.9	8.9	8.6	8.86
24	9.0	9.7	9.8	9.9	9.8	9.3	9.2	9.1	9.2	8.9	8.9	8.4	8.55
25	9.6	9.7	9.9	10.4	9.8	9.7	9.6	9.3	9.1	9.0	8.9	8.8	8.79
26	8.5	8.9	10.1	10.0	9.6	9.1	9.0	9.0	8.5	8.3	8.9	7.5	8.78
27	10.2	10.4	10.9	10.4	10.4	9.7	9.3	9.0	9.2	8.9	8.9	8.9	8.85
28	10.6	9.1	9.2	9.8	9.6	9.4	9.4	8.9	8.9	8.6	8.6	8.6	8.87
29	10.8	10.9	10.0	10.0	9.9	9.6	9.3	9.1	8.9	8.8	8.6	8.6	9.05
30	9.9	9.7	9.1	9.1	9.3	9.0	9.4	9.1	9.1	8.9	8.9	8.8	8.49
31	10.0	10.6	10.6	10.6	9.4	9.3	9.3	9.4	9.3	9.3	9.3	9.1	8.81
Hourly Means.	10.35	10.49	10.42	10.24	9.89	9.49	9.40	9.17	9.10	8.88	8.76	8.59	8.79

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0. 36900 + THE NUMBERS IN THE TABLE.

DECEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	193	200	195	193	196	194	200	201	210	215	213	203	—
2	193	191	199	195	191	189	195	205	213	225	226	219	—
3	197	196	195	196	199	199	205	214	219	221	231	228	—
4	198	197	196	203	201	206	210	214	223	226	231	225	—
5	202	201	201	201	201	206	211	217	223	222	228	227	
6	198	197	193	205	206	211	213	217	222	230	230	235	—
7	187	182	186	184	187	190	198	200	210	211	219	216	—
8	206	192	189	190	197	196	200	207	216	216	224	217	—
9	191	193	195	196	196	198	208	214	221	229	228	228	—
10	189	193	194	196	197	200	205	210	214	219	213	211	—
11	198	201	197	198	199	203	211	220	225	226	227	220	—
12	196	195	196	196	197	201	208	218	224	229	225	224	—
13	206	205	207	214	210	219	226	239	248	243	243	234	—
14	167	172	173	178	178	182	187	193	201	205	199	200	—
15	183	186	187	189	189	194	199	211	226	231	236	228	—
16	186	187	188	187	189	192	198	211	225	233	242	244	—
17	152	144	142	158	161	165	168	178	187	188	192	188	—
18	184	173	167	171	194	187	205	188	180	187	185	188	—
19	177	172	176	179	182	192	200	197	206	211	217	218	—
20	165	168	174	172	176	179	179	188	191	198	205	206	—
21	179	173	182	170	174	178	183	187	188	197	191	190	—
22	165	168	157	153	165	187	178	180	166	165	140	137	—
23	158	161	163	167	169	175	178	182	182	187	195	196	—
24	172	175	179	178	181	182	186	192	197	202	206	202	—
25	180	182	182	185	187	190	198	206	216	223	218	215	—
26	181	184	181	191	187	187	200	192	193	194	187	192	—
27	181	161	172	177	176	186	197	211	206	221	222	219	—
28	191	186	185	180	182	192	197	200	209	211	208	192	—
29	191	190	190	187	187	193	193	193	196	187	195	182	—
30	194	192	192	192	194	197	203	216	222	225	229	221	—
31	192	189	188	197	193	193	199	206	216	220	219	216	—
Hourly Means.	185.5	184.1	184.5	186.4	183.4	192.4	198.0	203.5	208.9	212.8	213.7	210.4	—

DECEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	196	190	187	187	186	186	187	191	191	192	196	195	195.7
2	207	200	197	197	199	197	196	193	188	187	189	197	199.5
3	208	205	195	197	196	191	195	196	193	192	193	197	202.4
4	225	214	209	202	202	201	201	201	199	200	201	204	207.9
5	221	215	208	203	206	200	197	204	206	206	203	196	208.5
6	242	231	220	205	203	201	211	213	201	198	193	193	211.2
7	206	202	200	195	194	187	175	187	182	195	178	183	193.9
8	206	193	183	184	190	191	188	187	189	184	189	192	196.9
9	218	210	198	195	197	196	194	189	184	188	189	189	201.8
10	202	197	193	191	196	193	198	195	195	195	196	197	199.5
11	217	215	210	207	207	208	208	204	196	192	194	197	207.5
12	210	202	199	196	195	197	196	198	197	198	201	203	204.2
13	220	206	189	183	178	177	178	168	174	173	180	168	203.7
14	194	185	168	168	168	169	170	178	180	181	181	182	181.6
15	222	210	199	195	189	187	186	187	185	185	184	185	198.9
16	239	233	211	186	164	172	159	140	124	115	140	169	188.9
17	169	156	153	175	174	172	159	157	144	146	135	171	163.9
18	178	171	175	171	164	173	178	168	165	179	169	180	178.3
19	192	177	182	178	162	177	157	164	167	155	178	166	182.6
20	205	194	178	175	173	173	172	164	171	165	168	187	180.3
21	180	180	168	175	173	168	167	157	170	142	151	154	174.0
22	143	146	135	116	102	114	124	143	129	145	165	161	149.3
23	188	180	173	169	168	171	172	177	175	169	170	169	174.8
24	197	187	179	182	187	186	183	183	181	182	175	177	185.5
25	222	215	210	187	173	174	180	184	186	186	181	180	194.2
26	194	186	182	187	186	184	179	179	180	175	170	183	185.6
27	200	187	182	181	187	183	186	182	168	168	177	200	188.8
28	190	178	175	172	178	186	187	187	172	180	173	185	187.3
29	191	177	188	191	189	188	187	191	190	188	183	182	188.7
30	206	195	186	181	185	182	185	189	188	191	187	211	198.5
31	201	201	189	185	189	192	197	189	187	182	186	188	196.4
Hourly Means.	202.9	194.8	187.8	184.4	182.6	183.1	182.3	182.1	179.3	178.5	179.8	185.2	191.3

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

DECEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	314	309	313	314	314	321	321	320	312	303	299	298	—
2	317	317	310	314	317	322	325	322	309	295	284	262	—
3	306	306	305	306	305	313	325	334	321	311	298	291	—
4	312	314	314	309	310	310	311	312	302	289	282	287	—
5	313	312	311	310	310	310	313	318	311	300	293	278	—
6	320	320	320	314	312	314	319	320	310	293	286	277	—
7	330	330	325	325	322	321	318	307	298	292	285	284	—
8	314	322	322	321	318	319	313	296	282	277	278	285	—
9	321	321	319	319	319	320	320	323	322	319	315	317	—
10	325	325	324	323	322	324	319	326	325	322	322	324	—
11	333	332	334	334	334	333	334	320	318	319	326	327	—
12	327	326	325	325	324	326	324	323	314	304	304	314	—
13	324	325	324	322	325	325	322	314	310	304	300	305	—
14	340	335	332	330	332	333	334	340	333	327	333	335	—
15	336	335	333	333	334	340	338	324	309	298	290	295	—
16	334	333	331	332	332	337	335	319	307	303	300	296	-
17	344	347	346	341	338	341	337	335	330	327	321	314	-
18	333	337	342	340	330	339	342	367	368	352	344	336	-
19	346	349	347	346	344	343	343	348	341	335	325	325	—
20	351	348	345	345	342	342	342	336	335	328	320	313	—
21	341	344	341	344	341	339	337	335	338	334	331	325	-
22	341	343	347	347	344	337	341	342	341	336	342	344	-
23	349	348	347	346	346	349	341	339	337	332	327	330	—
24	352	351	349	349	348	351	349	334	330	332	332	329	—
25	341	340	340	336	336	336	332	323	319	324	331	330	—
26	341	337	338	335	336	341	335	339	341	336	335	331	-
27	336	345	336	335	336	339	329	318	319	314	314	309	—
28	331	330	332	334	334	333	334	336	335	328	324	335	-
29	331	333	334	334	334	334	336	335	332	331	329	325	—
30	325	326	326	326	327	332	330	336	322	314	309	312	-
31	343	346	347	339	343	346	343	335	330	324	324	326	—
Hourly Means.	331.3	331.8	330.9	329.9	329.3	331.3	330.4	328.3	322.6	316.2	313.0	311.6	—

DECEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	300	306	309	311	314	314	317	317	317	317	316	316	312.2
2	272	279	286	293	303	305	309	309	313	312	310	305	303.8
3	296	302	306	310	315	319	317	316	318	318	317	314	311.2
4	292	298	303	306	310	312	314	314	315	314	314	313	306.5
5	275	286	304	305	310	317	319	315	316	316	319	320	307.5
6	275	291	305	317	319	321	317	315	321	325	325	325	310.9
7	299	309	317	320	324	326	330	325	325	318	329	325	316.0
8	296	307	313	309	311	318	320	321	319	323	321	321	309 4
9	323	329	333	329	327	328	327	329	332	329	327	325	323.9
10	328	329	330	329	329	330	329	331	333	334	333	333	327.0
11	327	330	334	337	331	327	326	327	329	331	329	325	329.0
12	326	333	333	329	328	328	328	328	328	328	327	325	324.0
13	322	335	342	335	337	341	338	342	339	339	335	341	326.9
14	337	340	344	346	348	346	345	342	339	339	337	336	337.6
15	304	308	312	327	336	336	338	336	336	336	336	335	325.2
16	306	319	335	352	364	354	357	362	366	368	353	335	334.6
17	325	335	347	339	340	341	352	347	355	359	360	342	340.1
18	337	342	343	344	348	346	344	353	355	346	352	341	345.0
19	328	330	331	342	357	354	357	354	352	357	349	352	344.0
20	321	324	330	335	346	346	344	349	344	349	346	339	338.3
21	320	322	329	328	334	341	342	346	339	358	356	352	338.2
22	345	341	342	357	370	366	362	354	356	349	342	346	347.3
23	336	346	350	352	352	350	352	351	352	354	354	354	345.6
24	332	333	339	336	336	340	341	340	341	341	346	342	340.5
25	332	333	335	341	347	348	343	341	339	340	341	342	336.3
26	330	332	331	333	340	341	340	339	341	343	342	340	337.4
27	317	321	321	334	332	334	334	333	341	341	336	325	329.1
28	345	346	344	336	337	335	334	336	344	339	341	335	335.8
29	325	332	327	329	331	332	333	334	332	332	333	333	331.7
30	318	330	337	335	336	344	342	342	346	343	344	309	329.6
31	335	338	346	346	345	344	343	347	348	351	350	347	341.1
Hourly Means.	316.9	322.8	327.7	330.4	334.1	335.0	335.3	335.3	336.5	337.1	336.1	332.0	328.6

EASTERLY DECLINATION. D.

DEVIATIONS. – UNITY = 0.'1.

JANUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	0	1	2	3	5	5	7	4	— 2	— 12	— 16	—
2	2	0	0	1	4	11	12	8	6	5	— 3	— 10	—
3	2	0	— 1	— 4	— 1	1	6	5	3	2	0	— 6	—
4	— 4	— 6	— 6	— 7	— 7	— 5	2	6	7	7	11	10	—
5	— 3	— 4	— 1	— 1	— 1	— 6	2	— 6	— 4	— 1	6	2	—
6	0	0	1	— 1	— 3	— 4	1	4	4	— 2	— 5	1	—
7	— 1	— 1	0	— 1	3	2	— 2	3	— 1	— 1	— 4	— 4	—
8	1	5	0	— 4	— 3	— 1	— 1	— 1	4	0	— 3	— 6	—
9	1	2	3	2	— 2	— 8	— 5	— 1	0	3	5	— 3	—
10	3	3	4	4	3	0	— 3	1	— 3	— 5	— 3	— 7	—
11	2	1	3	— 4	— 8	— 17	— 5	2	3	6	6	15	—
12	4	— 1	0	1	1	1	4	— 5	— 12	— 9	4	16	—
13	1	— 1	1	— 2	— 4	— 6	— 4	— 2	1	1	6	7	—
14	1	2	2	0	0	2	4	2	2	— 10	— 15	— 13	—
15	— 5	1	— 10	9	— 2	— 1	— 3	— 1	3	12	4	0	—
16	2	9	10	6	5	15	12	8	0	— 10	— 18	— 14	—
17	— 3	4	— 3	1	11	4	5	0	— 5	— 7	— 7	— 4	—
18	— 7	— 4	— 4	0	— 4	5	6	5	8	8	4	1	—
19	— 2	— 3	0	— 3	— 1	— 5	— 8	7	0	4	3	2	—
20	— 3	— 4	— 1	2	— 3	— 1	0	2	1	4	6	8	—
21	— 3	— 3	— 2	— 5	— 4	— 3	— 4	4	10	7	5	— 3	—
22	0	0	1	0	0	1	1	3	7	8	0	— 2	—
23	2	— 2	— 1	— 7	— 6	— 5	— 9	— 9	— 4	0	10	18	—
24	4	2	— 1	— 6	— 4	— 3	— 7	— 10	— 1	4	5	0	—
25	— 1	— 1	3	0	1	— 4	— 13	— 6	0	0	8	9	—
26	3	3	2	3	4	2	— 7	— 10	— 6	— 4	1	1	—
27	0	— 1	2	5	4	3	— 4	— 5	— 8	— 10	— 1	8	—
28	0	0	2	4	3	3	0	— 8	— 11	— 4	0	3	—
29	0	— 7	— 2	2	1	6	8	0	— 1	— 5	— 6	— 6	—
30	2	— 1	— 2	4	4	7	6	1	— 1	— 1	— 9	— 13	—
31	0	4	— 2	— 1	— 1	— 2	— 1	0	— 3	— 1	4	5	—
Hourly Amount.	64	75	71	92	101	139	150	132	123	143	174	213	—

JANUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 17	— 13	— 6	4	6	1	2	4	1	0	1	1	115
2	— 9	— 14	— 16	— 14	— 1	5	4	5	4	6	4	2	146
3	— 6	— 8	— 2	4	5	5	3	3	2	2	0	— 2	73
4	5	1	4	6	3	— 1	— 1	— 4	— 2	— 3	— 3	— 1	112
5	0	— 4	1	4	2	3	— 1	1	0	0	0	— 1	54
6	3	3	3	2	3	— 2	— 2	— 1	0	1	— 1	— 1	48
7	— 2	— 3	— 1	1	2	1	0	1	1	0	2	2	39
8	— 3	— 1	0	— 1	— 3	— 1	2	3	3	2	2	0	50
9	2	— 3	0	— 4	0	3	2	2	2	1	1	2	57
10	— 6	— 2	— 8	— 11	— 5	1	4	6	6	7	7	5	107
11	16	9	— 1	— 6	— 3	— 3	— 3	— 3	— 5	— 3	0	2	126
12	12	10	4	— 9	— 12	— 10	— 1	— 1	0	0	0	— 2	119
13	5	11	9	1	— 2	0	— 2	— 5	— 3	— 2	0	5	81
14	— 7	4	3	4	2	— 2	2	2	— 4	— 4	— 1	— 3	91
15	0	— 3	— 2	— 4	5	— 1	— 3	0	0	0	— 6	1	76
16	— 12	— 11	— 6	4	5	7	2	— 2	2	0	— 2	— 5	167
17	0	0	— 3	— 5	— 2	— 1	3	0	— 2	— 5	— 2	1	78
18	6	10	3	6	0	— 2	— 1	— 3	0	2	— 4	— 2	95
19	3	0	4	5	— 3	— 2	— 1	0	— 1	— 1	— 5	— 1	64
20	5	1	— 2	2	— 2	— 2	0	0	1	— 5	— 4	— 4	63
21	— 6	— 1	— 1	0	— 1	0	1	0	0	— 1	— 1	0	65
22	— 5	— 7	— 2	— 7	— 1	1	5	5	5	6	3	— 1	71
23	9	1	— 2	— 1	— 1	1	— 3	— 4	— 5	— 1	4	4	109
24	1	0	2	5	2	— 3	— 2	— 2	0	1	3	0	68
25	8	5	2	— 1	— 3	— 3	— 1	0	— 2	— 6	— 2	1	80
26	— 3	2	2	2	1	3	0	— 6	1	1	0	1	68
27	5	4	7	2	— 4	— 5	— 4	— 2	0	— 1	1	— 1	87
28	6	10	11	5	— 3	— 3	— 3	— 4	— 4	— 3	0	1	91
29	— 2	3	— 1	1	0	3	1	2	— 2	— 1	— 4	2	66
30	— 11	— 6	0	4	6	2	— 1	0	— 2	1	1	— 1	86
31	— 2	— 3	— 3	1	3	0	— 3	0	0	3	3	4	49
Hourly Amount.	177	153	111	126	91	77	63	71	60	69	67	59	2601

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JANUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	5	6	5	4	3	3	1	0	0	— 1	— 2	— 4	—
2	— 2	— 4	— 2	— 1	— 2	— 1	0	— 2	— 4	— 3	2	7	—
3	— 1	— 1	— 1	— 3	— 3	0	— 3	— 9	— 9	— 9	3	8	—
4	— 8	0	— 1	3	4	6	— 1	— 4	— 6	— 7	— 4	— 1	—
5	12	0	0	3	1	9	0	— 2	— 3	6	4	— 5	—
6	0	— 5	— 7	— 6	— 3	— 1	— 3	— 1	1	3	— 2	— 7	—
7	0	— 6	— 2	2	2	— 3	— 5	— 4	4	5	3	4	—
8	— 2	9	8	3	0	— 6	— 5	1	— 9	4	2	3	—
9	— 1	2	0	0	2	4	7	5	— 5	— 7	— 2	0	—
10	— 3	— 6	— 3	— 5	— 6	— 8	— 4	3	0	— 3	— 2	7	—
11	2	0	— 5	0	13	12	13	8	0	— 5	— 9	— 14	—
12	— 9	— 1	— 5	— 2	— 1	2	4	8	10	11	6	— 3	—
13	2	— 5	— 5	— 4	1	4	3	5	1	— 5	— 2	— 2	—
14	— 1	— 7	— 4	3	3	3	— 4	— 1	1	23	12	1	—
15	— 6	0	— 12	— 6	1	— 2	1	— 2	4	2	— 1	6	—
16	7	— 4	6	7	2	0	0	— 2	— 7	— 6	— 5	0	—
17	— 5	5	4	— 1	— 4	1	— 5	4	— 4	— 6	5	1	—
18	13	2	0	2	2	— 4	— 2	6	0	5	11	1	—
19	— 5	— 3	— 1	1	— 5	— 2	— 6	— 3	3	— 2	— 4	3	—
20	1	— 2	— 2	0	3	— 1	4	5	8	— 1	— 1	2	—
21	1	1	— 5	— 7	— 6	— 5	— 4	— 5	— 1	— 3	— 1	5	—
22	— 4	— 4	0	— 2	— 3	— 8	— 5	— 3	— 2	— 6	— 8	1	—
23	5	2	— 9	— 9	2	5	7	12	14	4	0	— 21	—
24	12	3	6	22	7	4	4	1	— 9	— 18	— 9	1	—
25	4	0	15	4	0	1	0	— 6	0	4	0	6	—
26	— 2	4	11	2	4	5	10	4	9	3	6	— 13	—
27	2	9	10	— 2	— 4	0	1	— 9	— 2	7	5	0	—
28	— 2	2	— 4	— 4	0	— 1	2	3	1	— 2	1	5	—
29	0	6	— 2	— 4	— 10	— 12	— 10	— 9	— 8	— 3	2	12	—
30	— 4	4	10	1	2	1	— 2	— 7	— 5	— 3	— 2	— 1	—
31	— 6	— 2	1	— 1	— 1	0	0	3	11	2	— 5	— 5	—
Hourly Amount.	127	105	146	114	100	114	116	137	141	169	121	149	—

JANUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 5	— 4	— 6	— 2	— 1	3	3	— 1	4	2	— 1	— 2	68
2	8	3	0	1	2	3	2	— 3	— 4	— 5	— 1	— 3	65
3	17	16	17	12	7	7	9	10	2	— 5	— 9	— 8	169
4	— 2	— 1	2	0	— 3	— 4	— 7	— 6	— 1	2	— 1	— 4	78
5	— 5	— 8	— 6	— 7	— 6	0	4	3	3	2	1	1	91
6	2	7	7	11	7	0	— 2	1	5	0	— 3	— 1	85
7	12	— 14	— 21	— 12	2	— 2	3	4	0	0	1	— 3	114
8	— 1	0	5	6	7	3	0	— 4	— 4	1	— 5	— 3	91
9	3	2	1	— 2	— 4	2	0	4	1	0	— 2	— 3	59
10	3	2	5	9	5	1	1	— 1	1	1	— 5	— 5	89
11	— 6	0	7	— 2	— 4	— 5	0	1	0	— 1	— 1	1	109
12	— 19	— 12	— 5	7	4	3	— 2	3	3	4	— 3	1	128
13	— 1	— 2	4	9	— 3	— 7	— 9	3	— 1	2	— 1	— 6	87
14	3	7	2	5	6	8	7	10	— 11	— 1	— 9	1	133
15	— 14	— 1	— 6	— 9	— 7	3	— 4	— 2	— 11	— 2	18	5	125
16	11	10	1	— 7	— 12	— 21	10	4	14	— 9	7	6	158
17	— 2	2	3	6	— 1	— 8	— 5	— 12	4	— 1	3	— 7	99
18	— 6	— 11	— 5	— 7	— 9	— 2	2	5	6	— 1	24	— 3	129
19	4	4	5	9	7	2	— 8	— 6	— 3	— 9	6	8	109
20	— 1	3	— 4	— 7	— 6	1	2	5	5	6	— 4	— 5	79
21	6	5	7	6	6	1	0	1	4	3	— 4	— 5	92
22	1	2	— 3	3	6	7	— 12	— 8	1	12	21	36	158
23	— 29	— 22	— 10	— 30	— 13	— 5	1	— 5	17	12	4	9	247
24	5	5	— 1	— 5	— 1	3	2	— 2	— 12	— 11	— 12	— 1	156
25	1	— 1	2	10	14	8	— 2	— 20	— 18	— 1	— 10	3	130
26	— 5	— 6	— 3	— 4	— 2	— 3	— 2	5	— 13	— 1	— 1	4	122
27	1	2	6	2	1	1	— 2	— 2	— 5	1	— 1	— 6	81
28	2	— 1	— 11	— 6	— 1	1	3	6	8	7	4	5	82
29	10	5	4	1	2	— 2	4	3	9	5	— 8	— 9	140
30	4	1	— 1	— 2	1	5	5	4	1	— 8	— 10	— 7	91
31	— 4	4	7	7	— 6	— 3	— 3	1	— 3	0	— 1	1	77
Hourly Amount.	193	163	167	206	156	124	116	145	174	115	181	162	3441

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JANUARY. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 27	— 24	— 22	— 20	— 18	— 17	— 10	1	18	30	36	32	—
2	4	2	0	— 1	— 3	— 5	4	1	3	2	1	6	—
3	— 3	— 1	0	1	— 2	— 4	— 2	6	11	5	1	— 4	—
4	3	0	— 2	— 4	— 6	— 8	— 8	2	3	— 1	— 7	— 4	—
5	— 6	5	2	1	0	1	5	12	6	— 3	— 8	— 5	—
6	0	5	5	1	1	— 1	— 3	5	8	13	13	0	—
7	5	6	4	2	1	3	6	8	— 1	— 5	— 2	— 6	—
8	0	— 6	— 3	— 2	1	5	10	4	7	8	9	3	—
9	5	3	5	6	10	11	0	— 14	— 4	3	— 7	— 9	—
10	— 2	— 3	— 5	— 3	— 2	— 1	— 5	1	4	— 1	0	— 1	—
11	1	2	3	1	— 3	1	— 8	— 9	— 5	— 1	1	— 3	—
12	4	0	0	— 2	— 2	— 4	— 4	— 10	— 6	— 7	— 8	— 3	—
13	— 3	2	2	3	1	1	0	2	6	5	— 5	— 4	—
14	6	7	4	3	1	3	7	— 7	— 6	— 12	— 4	9	—
15	5	— 2	11	4	— 4	— 5	— 12	— 16	— 22	— 16	1	5	—
16	— 5	2	— 2	1	3	2	7	9	14	6	4	— 4	—
17	10	2	2	1	2	— 2	— 2	— 2	— 1	1	— 12	— 13	—
18	— 8	— 4	1	— 2	— 4	— 3	— 7	— 12	— 3	2	2	8	—
19	5	4	4	0	8	8	2	— 6	— 9	— 7	— 3	— 3	—
20	— 4	0	4	— 1	— 2	0	4	— 2	— 3	1	2	— 1	—
21	3	0	3	4	3	1	0	1	— 6	— 6	0	6	—
22	3	0	— 3	— 2	0	0	1	— 1	— 4	— 2	— 2	— 3	—
23	8	11	14	12	5	4	— 1	— 5	— 10	— 15	— 8	3	—
24	— 3	2	4	— 2	7	8	8	1	— 4	1	0	3	—
25	2	— 1	— 13	— 1	0	3	— 3	0	— 11	— 13	— 8	— 2	—
26	— 5	— 4	— 8	1	1	— 1	— 2	2	0	0	— 4	3	—
27	0	— 5	— 4	3	5	3	5	9	5	— 5	— 2	— 4	—
28	2	— 1	3	3	2	2	5	12	7	2	— 11	— 9	—
29	2	0	2	2	3	4	4	7	7	6	5	— 3	—
30	3	— 3	— 8	— 4	— 5	— 5	0	5	0	1	3	2	—
31	4	2	— 2	— 1	— 2	— 3	— 3	— 7	— 7	— 1	4	— 2	—
Hourly Amount.	141	109	145	94	107	119	138	179	201	181	173	163	—

JANUARY. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	16	4	— 6	— 17	— 15	— 14	— 12	— 8	— 9	— 7	— 3	— 1	367
2	— 1	6	10	7	— 3	— 5	— 4	— 2	— 1	1	2	0	74
3	— 12	— 9	— 13	— 3	3	2	— 2	— 2	3	5	8	7	109
4	1	8	5	6	4	6	7	3	— 1	— 2	1	2	94
5	— 10	— 11	— 3	— 2	— 2	— 3	0	1	0	— 2	0	— 2	90
6	— 10	— 16	— 17	— 13	— 3	5	6	3	— 2	2	3	2	137
7	— 13	— 3	8	— 2	— 7	2	— 1	— 2	0	0	0	— 1	88
8	— 2	— 10	— 12	— 7	— 1	2	2	3	4	1	5	6	113
9	1	— 1	2	— 3	— 3	— 2	2	— 1	— 2	— 2	0	— 3	99
10	— 1	7	9	6	4	1	— 1	— 1	0	0	3	3	64
11	— 8	6	11	7	0	4	— 1	1	2	2	1	— 2	83
12	14	16	14	13	10	1	— 3	— 2	— 4	— 5	1	0	133
13	— 9	— 10	— 5	— 8	0	2	5	0	1	1	5	5	85
14	— 4	— 4	2	— 4	0	— 3	— 3	— 6	6	1	5	0	107
15	29	25	26	25	11	— 2	2	— 12	0	— 6	— 17	— 11	269
16	— 13	— 16	— 11	— 10	— 1	5	— 8	— 2	— 5	6	1	1	138
17	3	4	6	3	3	7	5	5	— 3	0	— 4	1	94
18	5	12	6	8	9	4	— 3	— 5	— 6	— 3	— 13	3	133
19	5	— 4	— 5	— 3	3	4	6	8	2	5	— 6	— 2	112
20	5	— 2	— 8	— 7	— 2	— 3	— 1	— 1	0	— 1	3	5	62
21	3	— 6	— 2	— 1	0	2	2	2	— 1	— 2	0	1	55
22	0	4	5	4	— 3	— 2	8	4	— 2	— 7	— 11	— 17	88
23	14	10	— 1	11	3	— 5	— 3	2	— 6	— 3	0	— 2	156
24	0	— 6	— 9	— 8	— 4	— 5	— 3	2	8	7	9	2	106
25	7	12	9	4	— 3	— 2	5	17	11	— 3	0	— 8	138
26	2	— 5	— 2	1	0	1	0	0	10	5	0	— 1	58
27	— 2	— 3	— 8	— 2	1	2	2	0	3	0	2	4	79
28	— 7	— 9	— 10	3	4	0	— 2	— 2	— 4	— 5	— 3	— 4	112
29	— 11	— 6	— 2	— 2	— 2	1	— 4	— 2	— 5	— 1	7	7	95
30	4	3	3	0	— 6	— 4	— 1	0	2	8	6	5	81
31	2	4	— 1	— 5	— 1	3	2	— 2	1	— 1	— 3	— 2	65
Hourly Amount	214	242	231	195	111	104	106	101	104	94	122	110	3484

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY. 1	8	6	4	1	2	7	7	3	— 7	— 13	— 24	— 15	—
2	0	— 6	— 1	3	1	6	10	5	9	— 5	— 13	— 22	—
3	3	3	5	7	6	3	1	5	5	— 5	— 9	— 14	—
4	0	— 2	— 3	— 8	— 7	— 6	3	— 2	9	5	— 1	— 3	—
5	— 2	3	2	3	3	2	— 1	— 4	— 9	— 5	— 7	— 6	—
6	1	2	— 2	0	6	— 4	— 3	2	— 5	5	17	17	—
7	3	4	5	8	5	— 2	— 6	— 2	— 4	— 2	— 1	— 8	—
8	— 1	0	— 1	— 4	— 7	— 7	— 12	— 2	13	18	13	11	—
9	6	3	1	1	— 2	— 8	— 11	— 6	— 1	3	5	7	—
10	1	5	1	1	2	1	— 3	— 6	1	0	7	4	—
11	7	7	6	5	6	6	— 5	— 15	— 19	— 11	— 5	— 10	—
12	4	5	6	5	5	6	4	0	— 6	— 14	— 9	— 3	—
13	0	— 1	1	2	6	9	18.	8	— 5	— 12	— 13	— 5	—
14	— 8	— 5	— 2	— 4	— 1	0	3	0	9	9	7	0	—
15	— 1	1	— 4	— 7	— 4	4	3	12	— 2	2	— 2	— 1	—
16	— 3	— 3	— 1	0	0	— 1	0	2	2	1	— 3	— 3	—
17	— 4	— 2	— 2	— 2	— 5	0	— 4	— 3	6	8	9	13	—
18	— 1	— 1	— 3	— 3	— 4	— 9	— 6	7	14	13	8	6	—
19	— 3	— 2	— 2	— 2	0	— 1	— 1	1	4	4	4	3	—
20	1	— 2	2	1	0	2	2	— 1	— 1	5	— 9	— 9	—
21	0	— 3	— 5	— 5	— 12	— 11	— 4	1	2	9	5	— 1	—
22	2	1	2	5	0	0	3	— 2	— 5	— 8	3	1	—
23	— 7	— 4	— 9	— 2	— 2	— 2	3	6	6	9	15	13	—
24	— 3	— 1	— 2	0	— 1	— 1	— 1	— 5	0	5	6	11	—
25	2	4	4	2	3	1	— 2	— 2	— 4	— 7	— 7	— 1	—
26	1	0	1	3	2	5	0	— 4	— 7	— 12	— 5	6	—
27	1	— 5	— 4	— 4	0	3	3	0	— 3	— 2	7	7	—
28	— 3	— 4	— 1	— 3	— 2	— 3	0	5	0	1	3	4	—
Hourly Amount.	76	85	82	91	94	110	119	111	158	193	217	204	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
FEBRUARY. 1	— 18	— 11	1	4	8	10	5	3	4	4	4	3	172
2	— 21	— 12	— 5	6	3	6	4	5	1	3	6	4	157
3	— 18	— 15	— 3	2	3	4	5	4	7	7	5	1	140
4	2	— 1	0	2	3	0	4	2	4	3	— 1	— 4	75
5	0	1	1	— 1	3	0	1	2	2	— 5	— 2	— 6	71
6	7	— 2	— 9	— 14	— 7	— 4	1	1	— 1	0	2	1	113
7	— 12	— 9	— 3	4	4	10	5	9	6	1	0	0	113
8	8	2	— 2	— 9	— 8	— 6	— 3	— 1	3	4	4	4	143
9	11	14	4	— 4	— 7	— 7	— 7	— 13	— 7	— 3	— 4	1	136
10	2	4	3	2	— 6	— 11	— 5	1	2	5	4	7	84
11	— 3	7	6	3	2	— 3	0	1	— 11	— 5	2	3	148
12	— 2	— 1	4	— 1	2	0	— 3	— 13	— 2	— 1	1	1	98
13	— 8	0	6	7	3	1	2	— 4	— 4	1	— 2	— 2	120
14	1	5	5	2	— 1	0	— 2	— 11	— 5	— 1	0	— 5	86
15	1	— 1	— 1	1	1	0	— 1	1	1	1	— 1	0	53
16	— 4	0	4	4	1	1	2	0	2	1	— 1	— 1	40
17	3	— 4	— 10	— 7	— 2	1	2	0	— 1	— 1	— 1	— 1	91
18	3	0	3	5	4	— 3	— 3	— 3	— 4	0	— 4	— 3	110
19	2	3	1	— 1	— 2	0	2	1	— 1	2	2	2	46
20	— 2	— 7	— 7	— 4	0	7	6	8	10	8	8	2	104
21	4	5	— 3	0	— 1	1	— 5	2	— 3	— 5	1	2	90
22	— 2	— 7	— 3	— 2	2	2	— 2	9	2	4	— 5	— 10	82
23	11	5	0	— 2	— 3	1	— 2	— 4	— 7	— 5	— 9	— 2	129
24	8	4	3	1	— 5	— 3	— 3	— 3	— 4	— 3	— 1	— 1	75
25	5	— 1	— 1	2	1	— 2	1	1	3	— 5	1	0	62
26	10	10	4	— 1	1	— 1	— 3	— 3	1	— 4	— 4	0	88
27	6	1	0	— 2	— 4	— 3	0	1	1	— 5	0	— 1	63
28	8	5	1	0	2	0	— 1	1	— 2	0	— 1	1	51
Hourly Amount.	182	137	93	93	89	87	80	107	101	87	76	68	2740

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	6	7	7	3	8	— 1	— 5	5	8	1	11	— 11	—
2	9	4	— 3	— 1	— 8	— 3	— 2	— 1	— 7	5	3	8	—
3	— 3	— 1	— 7	— 8	— 10	— 8	— 7	— 7	0	6	3	3	—
4	9	4	— 3	— 2	— 1	— 12	— 8	— 17	— 26	— 20	— 5	— 11	—
5	— 13	— 14	— 14	0	— 4	— 1	— 2	0	1	1	— 2	4	—
6	1	— 10	— 7	— 4	— 4	— 2	— 5	— 6	4	— 3	— 5	4	—
7	3	4	0	— 2	— 6	— 7	— 5	— 6	— 9	— 9	— 9	4	—
8	— 2	— 1	4	4	3	8	5	5	5	1	— 5	— 3	—
9	— 3	— 3	— 3	6	4	13	23	22	19	7	— 3	— 6	—
10	19	7	6	1	— 3	— 6	— 2	9	4	9	3	— 3	—
11	— 1	— 5	— 1	3	6	3	9	— 1	— 2	— 8	— 3	7	—
12	0	0	8	5	7	8	8	3	— 5	— 16	— 13	— 6	—
13	27	24	2	— 1	— 1	9	— 6	— 13	— 5	— 4	0	— 23	—
14	4	7	— 4	2	— 3	— 8	0	1	— 1	0	— 6	5	—
15	— 4	33	11	8	4	3	4	— 5	— 6	— 11	— 8	— 12	—
16	0	— 4	2	2	7	— 3	1	— 1	— 9	— 4	— 1	7	—
17	— 3	4	8	3	3	2	4	2	— 1	— 1	0	1	—
18	0	— 3	— 5	1	1	— 3	— 3	4	3	7	8	8	—
19	5	— 3	— 3	— 3	— 3	— 5	— 9	— 11	— 3	4	5	9	—
20	— 20	— 2	— 3	— 5	— 6	10	10	0	— 1	— 9	7	7	—
21	7	— 3	4	4	18	18	17	16	5	0	— 1	— 5	—
22	— 4	2	4	2	15	— 3	— 10	— 9	1	3	0	— 3	—
23	— 14	— 18	7	— 9	— 7	— 3	— 1	5	2	2	2	2	—
24	— 7	— 4	5	5	6	— 1	— 5	— 1	6	9	6	— 1	—
25	— 7	— 3	— 1	— 5	— 6	— 4	— 2	3	7	11	5	4	—
26	— 2	— 2	— 1	— 5	— 7	— 3	— 9	— 3	1	9	11	6	—
27	— 1	— 4	— 3	— 1	— 7	— 2	— 3	— 1	1	3	— 3	5	—
28	— 8	— 16	— 14	— 6	— 4	— 1	0	6	8	8	5	4	—
Hourly Amount.	182	192	140	101	162	150	165	163	150	171	133	172	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 1	9	— 22	— 25	— 17	— 4	6	6	3	7	3	0	176
2	9	0	— 1	— 1	— 4	1	— 1	— 2	6	1	— 3	— 5	88
3	12	6	5	— 3	0	9	10	5	4	1	5	5	128
4	— 7	14	31	21	17	10	11	13	8	0	— 12	— 6	268
5	6	0	— 3	2	— 2	4	3	2	— 2	15	— 1	3	99
6	2	7	5	2	0	2	2	— 4	— 1	— 1	3	3	87
7	3	7	17	23	26	18	9	— 18	— 32	— 32	— 19	— 11	279
8	0	0	2	— 1	0	5	8	4	— 2	— 3	— 4	— 11	86
9	— 13	— 28	— 23	— 11	— 8	— 18	— 26	— 3	9	4	16	5	276
10	— 7	— 6	3	— 3	— 5	— 1	1	— 4	3	— 2	3	3	113
11	1	— 9	0	1	— 10	— 8	— 4	1	11	12	1	— 1	108
12	1	3	0	6	5	— 9	— 28	— 18	— 3	2	10	16	180
13	— 3	2	1	2	— 11	1	— 5	20	— 10	— 15	— 14	15	214
14	11	6	10	— 6	— 2	4	— 4	— 15	— 4	— 11	8	8	130
15	— 12	0	3	3	— 2	— 5	0	1	3	— 8	7	0	153
16	7	4	— 6	— 11	— 5	0	— 1	6	— 1	— 6	— 5	— 2	95
17	— 3	— 2	— 6	0	4	1	— 8	2	— 1	— 3	— 4	— 5	71
18	1	1	3	— 1	— 6	— 5	0	— 1	0	— 1	5	1	71
19	6	4	6	8	5	5	5	6	9	7	2	— 10	136
20	— 11	— 3	— 9	4	9	— 9	— 11	2	— 16	4	— 9	— 4	171
21	— 13	— 18	— 12	— 11	3	— 5	11	— 10	19	3	— 10	— 1	214
22	1	3	6	1	9	— 3	— 5	0	1	6	13	29	133
23	— 2	— 8	— 6	0	— 3	— 13	— 1	6	7	— 2	6	5	131
24	1	— 4	— 14	— 16	— 5	1	3	4	3	0	1	— 2	110
25	0	2	0	— 1	1	0	2	— 4	— 3	9	— 2	— 5	87
26	5	— 1	— 1	3	— 7	— 1	5	1	1	— 2	3	0	89
27	2	6	2	1	12	18	6	— 9	— 19	9	— 12	— 20	150
28	5	4	11	9	— 3	0	6	5	7	4	7	— 12	153
Hourly Amount.	145	157	208	176	181	160	182	172	188	170	188	188	3996

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 5	— 3	— 4	— 1	— 3	— 1	6	17	13	9	— 9	5	—
2	— 1	3	2	0	— 1	— 2	— 2	— 2	— 4	— 4	7	7	—
3	1	1	3	4	3	5	1	— 10	— 4	— 1	2	4	—
4	— 5	1	7	6	6	7	5	10	23	22	12	10	—
5	9	9	10	1	3	3	0	— 4	— 1	4	13	— 2	—
6	3	11	12	13	12	13	13	— 16	— 15	— 4	— 3	1	—
7	— 8	— 9	— 4	— 2	0	0	— 3	7	11	5	0	3	—
8	— 3	— 6	— 6	— 3	— 1	1	3	2	— 4	— 5	— 2	3	—
9	2	2	3	2	5	6	— 3	— 17	— 17	— 12	— 8	— 1	—
10	— 10	— 4	— 1	2	7	8	8	4	5	— 3	— 3	— 1	—
11	2	4	1	0	1	7	16	28	25	17	7	— 12	—
12	4	1	— 3	— 3	0	— 2	6	9	17	19	7	— 9	—
13	— 9	— 13	5	3	— 1	— 14	— 5	19	14	12	11	10	—
14	— 1	4	4	— 6	— 1	— 2	— 9	— 10	— 8	— 2	3	0	—
15	1	— 20	— 6	2	— 1	— 5	— 3	7	8	9	3	4	—
16	4	5	1	— 1	— 2	2	— 3	— 5	0	— 4	4	— 3	—
17	2	— 1	2	5	5	6	0	— 12	— 7	— 6	— 2	— 5	—
18	2	3	6	3	4	5	— 4	— 22	— 17	— 13	— 1	4	—
19	— 7	— 4	— 5	— 5	— 6	— 7	— 5	10	6	4	2	— 9	—
20	13	0	— 1	2	1	— 7	— 8	— 2	4	9	— 1	— 4	—
21	— 5	— 1	— 3	— 4	— 10	— 11	— 9	— 7	— 9	— 4	— 5	2	—
22	— 1	— 4	— 4	— 3	— 7	8	14	9	— 6	— 5	— 3	— 1	—
23	9	13	— 8	— 1	— 3	— 7	— 11	— 6	— 2	— 9	— 8	4	—
24	1	0	— 2	— 4	— 2	3	4	— 4	— 14	— 12	— 8	— 4	—
25	3	1	— 4	0	1	1	— 1	— 17	— 15	— 10	— 1	2	—
26	— 1	— 2	— 2	0	0	— 3	4	4	0	— 4	— 10	— 8	—
27	— 3	— 2	— 2	— 3	— 2	— 6	— 7	10	8	0	— 7	— 8	—
28	1	4	— 2	— 8	— 9	— 11	— 12	— 10	— 7	— 8	— 3	11	—
Hourly Amount.	116	131	113	87	97	153	165	280	264	216	145	137	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 1	— 9	4	— 1	— 12	— 7	— 7	— 3	— 1	— 2	1	— 2	126
2	4	4	0	1	4	1	— 2	2	— 2	1	3	4	63
3	0	— 5	— 7	— 3	— 1	— 5	— 2	— 4	— 4	— 4	— 2	— 2	78
4	— 2	— 20	— 35	— 15	— 14	— 6	— 6	— 7	— 3	1	9	14	246
5	— 15	— 12	— 3	— 5	— 2	0	— 3	— 1	6	— 1	5	8	120
6	1	2	1	— 6	— 4	— 4	— 5	— 1	— 3	— 5	— 8	— 9	165
7	— 2	— 8	— 12	— 11	— 10	— 5	2	14	23	20	8	— 2	169
8	— 3	— 2	1	7	6	— 3	— 4	— 2	4	5	3	7	86
9	6	12	12	4	3	8	14	1	— 11	— 8	— 13	— 6	176
10	— 3	— 10	— 12	— 5	3	2	— 6	— 3	— 6	— 4	— 1	— 1	112
11	— 19	— 15	— 19	— 15	— 3	2	— 1	— 4	— 3	— 7	0	4	213
12	— 15	— 14	— 15	— 16	— 14	— 2	14	12	— 5	— 5	— 8	— 10	209
13	0	— 5	— 7	— 3	5	0	0	— 11	11	11	11	— 7	187
14	— 2	1	4	13	14	4	1	11	— 2	0	— 7	— 11	120
15	5	— 7	— 9	— 5	0	3	— 1	— 3	— 1	4	— 3	2	112
16	1	3	4	7	4	— 3	— 2	— 5	— 1	1	5	4	74
17	9	7	7	— 2	— 4	— 2	2	— 1	— 1	0	3	4	95
18	6	8	7	0	3	9	2	0	— 3	— 5	— 9	— 8	144
19	— 6	— 2	— 1	5	8	4	2	1	— 1	— 2	— 1	8	111
20	— 5	— 4	5	— 2	— 9	2	11	1	10	5	8	2	116
21	3	12	10	11	1	3	0	7	— 8	3	8	3	139
22	— 2	— 3	— 9	— 9	— 11	— 3	4	2	2	— 1	0	— 11	122
23	16	26	21	16	7	6	— 1	— 4	— 2	2	— 5	— 5	192
24	6	9	13	11	6	— 5	— 5	— 4	— 3	— 1	— 2	0	123
25	11	15	10	3	5	3	— 1	0	0	— 5	— 3	— 1	113
26	— 4	7	14	7	6	0	— 3	— 1	— 3	— 1	— 3	— 2	89
27	— 4	1	8	7	— 1	— 5	0	8	12	— 5	4	8	121
28	12	13	12	6	7	2	— 2	— 3	— 6	— 3	— 2	9	163
Hourly Amount.	163	236	262	196	167	99	103	116	137	112	135	154	3784

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH. 1	0	2	3	2	5	3	— 1	— 7	— 7	— 12	— 4	— 6	—
2	0	0	— 1	— 1	— 2	— 3	— 1	— 2	0	— 1	— 3	— 1	—
3	— 1	— 2	1	— 2	— 1	— 1	2	2	— 2	— 5	— 5	— 2	—
4	— 1	0	— 1	0	1	1	— 2	— 4	— 5	1	3	2	—
5	5	1	2	4	3	5	7	6	— 5	— 13	— 16	— 9	—
6	— 4	— 8	— 9	— 4	— 4	— 2	6	9	10	7	3	6	—
7	— 2	— 3	— 4	— 4	— 4	— 1	2	0	— 2	2	0	— 2	—
8	0	0	— 2	— 2	— 3	— 2	— 5	— 1	3	12	9	4	—
9	— 5	— 6	1	— 1	2	9	0	— 11	13	15	15	14	—
10	6	6	6	5	9	0	— 2	— 4	— 8	— 9	— 8	— 3	—
11	1	2	— 1	— 1	— 3	— 7	— 10	— 2	9	13	8	9	—
12	— 1	2	— 1	2	0	— 2	— 2	— 2	— 1	2	4	— 1	—
13	7	5	7	7	3	— 3	— 3	— 3	— 8	— 7	— 5	— 5	—
14	2	3	2	3	2	1	3	— 5	— 10	— 6	— 5	0	—
15	1	0	0	— 1	— 3	— 5	— 3	3	5	7	2	— 3	—
16	— 2	0	— 1	— 3	0	5	1	— 4	— 2	— 1	— 2	— 6	—
17	1	— 2	— 3	0	— 1	— 2	— 3	4	6	6	2	— 2	—
18	— 3	— 2	— 2	— 4	0	— 3	— 2	0	6	13	12	5	—
19	0	0	— 1	— 2	— 2	0	1	0	5	6	5	8	—
20	— 3	— 1	— 1	— 3	— 7	— 5	— 1	1	8	8	2	— 7	—
21	— 1	— 5	— 6	— 3	— 1	— 6	— 1	4	5	5	5	5	—
22	— 3	— 5	— 1	1	— 3	— 4	— 5	1	10	9	7	3	—
23	3	2	5	4	8	10	10	— 2	— 11	— 11	— 7	0	—
24	1	0	— 1	0	— 1	— 6	— 4	9	6	— 2	2	1	—
25	1	2	2	1	1	1	— 3	— 4	— 4	— 5	3	4	—
26	0	2	3	1	3	— 2	— 2	3	— 4	— 5	— 5	— 3	—
27	— 1	2	2	— 1	0	1	2	3	— 9	— 3	5	6	—
28	— 3	— 1	— 2	— 2	— 2	2	0	4	3	1	— 5	— 7	—
29	1	5	4	5	5	7	9	0	— 10	— 17	— 16	— 9	—
30	— 1	1	0	2	1	2	1	1	— 2	— 1	0	0	—
31	0	0	2	1	3	5	6	1	— 3	— 6	— 6	2	—
Hourly Amount.	60	70	77	72	83	106	100	102	182	211	174	135	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
MARCH. 1	— 6	— 7	— 2	0	7	7	6	3	5	4	2	— 1	102
2	— 2	— 1	— 1	0	3	5	2	2	1	4	5	1	42
3	— 2	— 2	— 2	4	5	3	3	1	1	0	0	— 1	50
4	2	— 2	— 3	— 1	2	3	1	2	1	— 2	1	1	42
5	— 2	— 3	— 3	2	4	4	5	9	7	2	0	— 2	119
6	4	— 4	— 3	— 5	0	2	3	— 4	5	2	3	4	111
7	— 1	— 2	— 8	— 5	0	2	6	— 1	2	4	3	0	60
8	7	7	— 3	— 2	— 1	0	— 5	— 2	— 1	— 5	— 4	— 5	85
9	5	— 5	— 7	— 13	— 10	— 4	— 4	— 5	— 3	— 1	1	5	155
10	2	2	— 1	— 3	— 3	— 1	2	0	— 3	2	3	1	89
11	5	5	1	— 6	— 6	— 5	— 5	— 2	— 1	1	1	3	107
12	2	3	2	— 3	— 5	— 6	0	2	2	4	5	4	58
13	— 4	— 2	— 3	1	— 1	— 1	0	2	1	1	3	2	84
14	0	4	6	2	— 2	— 1	— 1	0	4	1	1	0	64
15	— 3	6	8	6	7	2	— 1	— 6	— 3	— 3	— 2	— 2	82
16	— 1	0	0	0	3	0	0	3	0	0	1	— 1	36
17	— 1	— 1	0	4	1	— 2	— 1	— 1	1	1	— 2	— 2	49
18	0	— 3	— 4	— 2	1	0	— 4	— 1	— 2	— 4	— 2	— 1	76
19	4	— 3	0	— 1	— 2	— 2	— 2	1	0	— 1	0	0	46
20	— 3	— 1	3	1	2	3	3	5	0	2	— 10	7	87
21	2	— 1	— 4	— 1	— 5	3	0	— 1	— 1	1	0	0	66
22	— 2	— 1	— 1	1	— 1	— 2	— 3	— 9	— 2	2	1	— 2	79
23	— 1	3	6	— 1	— 3	— 4	0	1	— 6	3	0	— 3	104
24	1	8	6	— 2	5	— 3	— 1	— 1	1	— 8	— 1	— 1	71
25	2	0	— 3	1	5	1	1	— 1	— 1	— 1	0	— 2	49
26	— 6	— 2	2	— 1	— 2	— 1	1	4	3	— 2	2	3	62
27	3	— 3	— 3	1	2	— 2	0	1	1	3	0	1	55
28	— 5	3	8	9	2	— 1	— 2	— 1	— 2	— 1	— 1	3	70
29	— 2	1	3	5	— 3	1	0	0	— 1	— 1	1	0	106
30	— 2	1	2	4	1	2	— 1	1	— 2	0	— 3	0	31
31	3	4	4	1	— 1	— 1	— 3	0	— 4	0	— 3	— 2	61
Hourly Amount.	85	90	102	88	95	74	66	72	67	66	61	60	2298

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH. 1	2	— 1	3	3	8	8	6	4	5	2	— 3	— 7	—
2	— 1	— 3	1	1	2	0	0	— 3	— 7	— 4	1	4	—
3	0	— 1	— 1	— 2	— 2	— 2	— 2	— 8	— 7	— 4	— 1	5	—
4	1	1	— 1	0	— 1	— 3	— 7	— 10	— 9	— 1	3	7	—
5	— 4	0	0	— 2	— 3	0	— 1	4	4	3	4	7	—
6	3	— 18	— 11	— 16	— 3	1	— 6	— 8	— 4	— 6	— 5	— 11	—
7	11	12	— 6	— 9	2	2	— 8	— 6	— 6	— 2	— 1	— 1	—
8	3	7	7	5	3	7	9	9	6	3	1	— 2	—
9	10	19	7	20	1	— 11	— 2	— 1	0	5	— 4	— 15	—
10	6	2	2	3	1	1	1	1	0	1	1	7	—
11	0	— 6	11	2	— 1	— 3	— 2	7	11	5	0	— 4	—
12	9	— 6	— 9	— 6	— 8	— 8	— 7	— 3	3	1	1	2	—
13	— 3	— 2	— 4	— 2	0	0	— 4	— 6	— 3	— 3	1	0	—
14	— 2	9	8	3	— 2	— 4	0	1	0	— 2	— 5	— 1	—
15	— 7	— 5	5	— 1	4	3	6	5	4	— 4	— 2	— 4	—
16	7	7	14	11	3	19	11	— 2	3	— 1	— 1	— 1	—
17	3	— 3	1	— 1	— 5	— 5	— 1	— 2	0	— 1	5	4	—
18	3	0	— 1	— 2	— 1	— 1	— 1	— 2	2	2	— 1	3	—
19	— 1	— 1	4	— 1	— 1	— 2	— 1	3	— 3	— 3	— 1	— 5	—
20	— 15	— 17	— 8	— 4	6	0	20	29	6	— 10	— 2	— 5	—
21	1	6	3	3	1	2	8	2	3	— 3	— 4	— 7	—
22	— 3	18	— 4	— 3	— 1	— 1	— 3	1	0	1	1	3	—
23	— 3	— 8	— 6	— 2	0	7	1	1	— 3	— 4	0	2	—
24	2	4	8	11	13	3	— 1	5	— 2	1	1	— 5	—
25	— 7	6	3	0	— 3	— 4	0	1	— 2	4	— 1	0	—
26	— 3	— 3	— 2	— 3	— 3	— 4	— 7	— 9	0	3	— 1	5	—
27	— 4	— 3	— 4	— 4	— 4	— 1	— 6	— 4	— 1	2	4	10	—
28	— 2	— 6	— 2	1	— 1	— 1	0	0	5	7	2	2	—
29	— 3	— 4	— 1	— 1	0	3	1	2	0	2	— 1	— 2	—
30	1	0	0	0	— 2	— 1	— 4	— 3	1	7	6	6	—
31	— 1	— 2	— 4	— 4	— 4	— 4	— 2	— 7	— 6	1	3	3	—
Hourly Amount.	121	180	141	126	89	111	128	149	104	98	67	140	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
MARCH. 1	— 3	1	3	— 3	— 6	— 6	0	2	5	4	1	— 4	90
2	5	6	6	— 1	— 7	— 6	— 2	2	5	1	3	3	74
3	8	6	4	3	1	2	2	— 3	— 1	— 1	— 3	1	70
4	8	7	4	2	— 1	0	0	— 11	— 3	— 1	— 4	0	85
5	9	5	5	9	13	14	4	— 3	— 4	— 5	8	4	115
6	— 3	9	14	13	11	8	— 4	— 9	— 10	— 5	3	5	186
7	0	5	— 2	2	— 1	2	— 9	— 7	— 4	— 3	— 1	— 1	103
8	— 6	— 16	2	0	— 1	— 30	5	10	7	— 2	— 5	8	154
9	— 8	— 4	— 2	— 2	— 17	— 17	— 10	0	— 5	14	2	— 1	177
10	— 3	6	— 2	— 4	— 11	— 10	0	5	7	0	— 2	5	81
11	— 4	— 5	0	3	— 1	3	1	1	4	3	3	— 4	84
12	1	3	8	6	6	2	— 1	0	3	0	— 1	1	95
13	— 1	7	7	5	2	3	1	0	4	1	— 4	— 3	66
14	— 1	0	2	4	4	4	9	4	— 7	— 8	— 6	— 2	88
15	4	0	— 26	— 8	1	— 3	— 9	— 3	— 2	4	4	4	118
16	— 8	— 11	6	2	— 3	— 12	— 5	— 5	3	— 4	1	5	145
17	— 3	1	3	— 1	— 1	3	1	0	0	1	— 3	— 3	51
18	2	— 2	— 2	— 2	— 1	1	2	— 1	1	1	— 1	1	36
19	— 3	1	— 2	1	5	8	3	2	4	1	3	— 3	62
20	— 6	— 8	1	— 2	0	4	8	2	7	— 2	— 5	— 22	189
21	0	— 1	7	1	1	— 17	— 26	— 4	1	1	19	11	132
22	0	2	4	5	6	3	— 8	5	— 14	— 8	— 1	6	101
23	1	8	— 5	— 1	— 4	— 1	1	— 7	16	1	5	12	99
24	— 9	— 20	— 20	— 27	— 14	7	2	6	0	10	4	— 2	177
25	5	7	6	3	0	1	1	1	— 2	— 4	— 1	— 3	65
26	3	10	— 3	3	9	13	13	11	0	4	— 8	— 17	137
27	3	4	4	3	3	7	8	3	— 9	— 9	— 6	4	110
28	— 6	— 7	— 8	— 7	5	7	2	3	— 1	1	1	— 1	78
29	16	— 8	— 9	— 6	— 3	3	4	2	2	6	2	5	86
30	— 1	— 6	— 6	— 1	1	4	4	— 1	0	0	— 2	— 4	61
31	0	0	0	5	4	6	4	0	— 1	— 3	— 4	2	68
Hourly Amount.	130	176	173	135	143	207	149	113	132	108	116	147	3183

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 10	— 7	— 8	— 9	— 11	— 9	— 4	— 6	— 4	— 4	— 5	— 1	—
2	7	6	2	0	0	2	1	1	2	— 1	— 5	— 6	—
3	2	3	5	4	4	3	2	2	6	13	6	— 3	—
4	2	2	1	1	2	2	2	1	3	— 5	— 3	3	—
5	— 5	— 6	— 6	— 5	— 5	— 9	— 6	8	10	3	2	— 8	—
6	0	13	11	10	— 2	— 11	0	3	— 2	1	3	5	—
7	— 6	— 6	8	9	1	0	2	0	1	— 1	1	0	—
8	— 2	— 5	— 3	— 1	0	— 1	0	— 6	— 2	— 1	1	3	—
9	— 9	— 12	— 1	— 8	5	13	11	1	— 4	— 2	4	8	—
10	— 7	— 5	— 3	— 4	— 1	2	3	4	4	1	— 3	— 11	—
11	— 2	2	— 10	— 3	1	5	4	— 5	— 5	— 1	3	3	—
12	— 5	2	5	1	1	1	3	5	— 1	1	3	3	—
13	3	2	2	1	2	5	8	7	4	0	0	3	—
14	2	— 3	— 1	1	5	5	5	13	13	5	1	— 4	—
15	5	5	4	2	— 1	— 1	— 7	— 9	— 9	1	6	7	—
16	— 5	— 5	— 6	— 5	— 1	— 10	— 6	8	3	— 1	2	— 1	—
17	— 2	3	2	2	3	2	0	— 1	— 3	— 2	— 3	3	—
18	1	3	4	3	3	3	2	— 6	— 7	— 5	4	4	—
19	0	— 1	— 3	1	2	1	2	— 3	— 3	2	— 1	0	—
20	14	13	6	3	— 2	0	— 14	— 17	— 2	2	2	7	—
21	— 2	— 3	— 4	— 5	— 6	— 6	— 12	1	3	2	1	— 2	—
22	3	— 4	6	7	7	8	4	— 8	— 6	4	8	5	—
23	1	4	2	1	— 3	— 8	1	8	9	4	— 6	— 7	—
24	0	— 3	— 5	— 6	— 6	2	3	— 3	— 3	1	— 1	— 1	—
25	6	— 5	— 2	2	6	7	3	— 1	2	— 3	— 2	0	—
26	0	1	— 1	— 3	— 1	— 2	— 2	— 3	— 1	— 1	— 5	1	—
27	2	0	— 1	1	2	— 2	— 1	— 3	— 8	— 9	0	2	—
28	4	6	1	— 1	0	— 2	— 3	— 7	— 10	— 4	2	3	—
29	1	0	0	— 3	— 2	— 2	2	7	9	4	— 5	— 9	—
30	2	0	— 1	— 1	— 1	— 2	— 2	— 1	— 3	— 6	— 9	— 2	—
31	1	3	2	2	1	— 1	2	6	2	— 3	— 6	— 6	—
Hourly Amount.	111	133	116	105	87	127	117	154	144	93	103	121	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 3	— 8	— 8	— 5	— 3	— 1	— 1	1	— 2	— 3	2	8	123
2	0	— 2	— 1	0	0	0	0	— 2	— 3	— 1	— 1	0	43
3	— 11	— 14	— 9	— 7	— 3	— 2	1	3	0	0	1	1	105
4	1	7	8	6	1	— 3	0	4	— 4	— 6	— 5	— 7	79
5	— 7	3	4	— 3	— 3	— 4	1	3	7	4	— 2	— 1	115
6	2	— 4	— 3	— 1	— 5	— 3	4	8	3	2	— 5	— 5	106
7	— 1	1	3	1	— 1	— 3	4	9	0	— 2	— 4	— 3	67
8	3	10	4	5	4	16	— 4	— 10	— 6	1	3	— 5	96
9	3	6	4	3	11	5	0	— 5	— 1	— 14	— 6	— 1	137
10	— 2	— 2	5	6	6	7	— 2	— 3	0	0	0	— 3	84
11	— 1	— 5	3	4	1	— 1	1	— 1	— 2	— 3	— 2	2	70
12	— 2	— 3	— 5	— 1	3	3	— 1	1	— 3	0	2	1	56
13	— 4	— 9	— 12	— 10	— 7	— 3	0	— 1	— 3	0	6	5	97
14	— 5	— 11	— 14	— 8	— 2	— 2	— 4	— 1	6	7	6	4	128
15	— 2	— 3	12	3	0	2	8	— 3	0	— 2	— 5	— 3	100
16	1	5	— 6	— 3	2	9	1	1	— 2	1	2	— 1	87
17	5	2	— 1	— 1	0	0	— 1	2	— 1	1	3	5	48
18	5	4	7	4	— 4	— 3	— 4	— 4	— 4	— 5	— 4	— 3	96
19	1	1	4	3	0	— 3	— 1	0	— 3	— 1	— 2	— 1	39
20	6	3	— 8	— 4	— 3	— 1	— 2	— 2	— 4	— 2	4	12	133
21	3	8	2	1	4	11	17	3	0	— 1	— 10	— 4	111
22	— 1	— 3	— 7	— 12	— 5	— 2	4	— 4	6	2	— 3	— 8	127
23	— 4	— 5	4	4	3	0	1	4	— 5	1	1	— 6	92
24	0	11	10	16	7	— 5	— 3	— 4	— 1	1	— 1	3	96
25	0	— 4	— 8	— 10	— 2	0	— 1	1	1	0	1	— 1	68
26	7	0	5	2	— 3	— 5	— 4	— 2	5	6	9	11	80
27	4	5	— 2	— 5	— 3	— 5	— 4	1	8	8	6	— 3	85
28	1	2	4	6	1	— 3	— 1	2	1	— 1	— 4	— 2	71
29	— 7	— 2	— 2	1	3	— 1	— 1	2	3	2	2	2	72
30	5	4	4	1	0	— 2	— 2	1	3	3	0	2	57
31	4	4	3	0	0	— 3	— 1	1	2	1	3	— 1	58
Hourly Amount.	101	151	172	136	90	108	79	89	89	81	105	114	2726

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	— 3	— 3	— 4	— 5	— 7	— 9	— 10	— 2	3	14	11	14	—
2	1	1	0	1	1	— 3	— 6	— 6	— 4	1	0	0	—
3	— 1	— 3	— 4	— 3	— 6	— 7	— 5	— 5	7	6	14	4	—
4	1	1	— 3	— 3	1	— 3	— 3	— 5	— 5	5	7	4	—
5	— 3	— 7	1	— 2	— 3	5	1	— 2	— 1	5	6	3	—
6	— 1	— 4	7	— 1	— 3	6	1	6	3	6	9	6	—
7	4	— 3	— 6	1	— 1	4	— 5	— 5	14	7	9	9	—
8	3	4	5	6	4	1	— 5	— 5	— 3	— 4	9	4	—
9	— 1	6	5	4	0	1	2	— 3	— 6	— 4	— 2	0	—
10	1	— 1	0	0	— 2	— 4	— 5	— 4	— 3	2	6	10	—
11	6	9	10	8	5	4	0	— 12	— 21	— 27	— 19	— 10	—
12	5	4	4	3	7	— 1	— 5	3	— 2	— 13	— 16	— 14	—
13	0	0	7	3	3	5	1	4	— 2	— 8	— 10	— 6	—
14	— 1	1	— 3	— 2	— 1	— 1	1	— 6	— 6	1	2	4	—
15	— 3	— 2	— 3	— 3	— 1	— 1	— 5	2	5	0	9	5	—
16	1	0	— 1	— 2	— 3	— 5	— 7	— 6	3	6	3	— 3	—
17	3	— 1	— 1	— 4	— 3	3	3	7	0	— 3	— 8	— 11	—
18	3	— 1	— 2	— 1	— 1	— 1	6	2	1	— 4	— 9	— 10	—
19	— 2	— 2	— 2	— 5	— 4	— 2	1	2	3	6	8	5	—
20	— 1	— 2	— 1	— 2	0	— 1	2	3	2	1	— 1	6	—
21	— 4	— 4	— 5	— 4	— 5	— 4	1	4	9	8	— 3	7	—
22	0	3	— 1	1	2	3	1	— 4	— 4	— 9	— 9	— 2	—
23	2	2	— 1	— 1	— 5	2	3	2	— 3	— 6	— 1	— 2	—
24	0	2	2	6	3	1	5	0	— 10	— 7	— 5	1	—
25	0	— 1	— 1	— 2	— 3	— 4	— 4	2	4	— 3	— 6	— 3	—
26	— 6	— 5	— 4	— 2	— 3	1	3	6	6	5	1	— 1	—
27	0	— 1	— 2	— 2	— 2	— 1	1	— 1	— 3	0	3	4	—
28	1	1	1	2	1	2	2	— 4	— 5	3	2	— 3	—
29	— 7	5	6	9	12	9	10	9	3	— 4	— 5	— 3	—
30	0	1	— 1	3	8	8	14	8	— 3	— 5	— 6	— 10	—
Hourly Amount	84	80	93	91	100	102	118	130	144	173	199	164	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
APRIL. 1	2	3	3	2	— 2	— 7	— 2	— 4	— 4	— 1	0	0	115
2	— 3	— 5	0	1	5	0	2	2	3	2	1	1	49
3	3	8	— 4	— 3	— 4	— 5	2	5	— 1	4	1	0	105
4	— 3	— 9	1	2	4	3	1	2	1	0	3	1	71
5	— 4	— 3	4	— 3	— 3	— 1	— 3	— 4	— 7	— 1	0	— 1	73
6	1	— 10	— 2	— 2	— 1	— 3	— 10	— 1	— 2	— 3	0	— 1	89
7	5	8	0	— 9	— 11	4	— 3	— 3	— 7	— 1	— 1	1	121
8	3	— 3	— 6	— 6	— 3	— 2	0	— 3	2	1	2	2	86
9	3	8	6	— 5	— 8	0	2	0	2	— 2	1	— 2	73
10	9	7	1	0	— 3	— 6	— 3	— 2	— 1	— 1	2	1	74
11	— 1	8	13	10	0	4	4	6	3	1	4	5	190
12	2	9	6	— 1	— 4	— 3	1	— 1	5	1	1	— 1	112
13	— 7	0	0	— 1	2	1	5	2	3	4	3	1	78
14	6	2	0	2	1	2	4	0	— 2	— 2	— 2	— 3	55
15	11	1	— 1	2	3	— 3	— 3	0	0	— 1	— 1	0	65
16	6	1	1	3	4	0	0	1	1	1	2	1	61
17	— 14	— 4	— 1	2	2	4	9	4	3	3	— 3	2	98
18	2	2	3	1	4	0	2	0	2	0	— 1	— 2	60
19	4	3	— 2	— 2	— 3	— 4	— 3	— 1	— 2	— 1	— 1	— 1	69
20	2	7	6	1	0	2	— 3	— 2	— 2	— 3	— 2	— 2	54
21	2	3	4	8	4	2	— 8	1	— 4	0	0	0	94
22	— 3	— 4	— 7	— 2	4	8	4	— 1	4	— 2	0	0	78
23	1	5	3	1	— 2	0	— 1	— 1	1	1	1	0	47
24	1	— 8	— 7	0	1	5	4	3	1	1	2	1	76
25	0	2	6	8	6	15	6	0	0	— 5	— 6	— 5	92
26	— 3	— 3	— 3	— 1	6	2	1	0	1	1	0	0	64
27	2	2	0	— 1	— 1	0	— 1	— 1	— 1	— 2	— 1	0	32
28	— 2	— 1	— 4	— 4	— 3	— 2	— 2	— 6	0	1	— 4	— 2	58
29	— 10	— 7	— 4	1	4	— 1	— 1	0	— 3	— 4	— 3	2	122
30	— 11	— 11	— 6	2	4	1	2	1	0	2	— 3	2	112
31													
Hourly Amount.	126	147	104	86	102	90	92	57	68	52	51	40	2473

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

APRIL. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 1	0	— 1	— 2	0	— 1	0	4	9	5	7	6	—
2	0	6	11	11	11	15	7	1	— 5	— 15	— 18	— 13	—
3	2	— 6	— 4	— 9	6	— 1	7	23	7	— 3	— 15	— 3	—
4	— 4	— 7	— 5	— 2	— 5	— 5	— 1	— 1	2	4	7	10	—
5	— 9	1	— 8	— 5	— 7	7	3	4	7	— 4	— 13	— 3	—
6	14	20	4	16	1	— 13	3	4	5	7	5	6	—
7	8	14	18	8	11	8	19	23	— 23	— 3	— 10	— 24	
8	13	14	10	8	8	2	— 2	— 6	3	— 7	— 4	— 12	—
9	7	— 8	— 7	15	— 4	— 2	— 6	1	6	4	10	5	—
10	1	— 2	— 2	3	2	— 1	— 2	3	8	6	11	9	—
11	— 1	— 4	— 8	— 7	— 4	2	0	3	9	8	— 9	0	—
12	— 1	6	5	5	6	6	3	— 7	— 9	— 2	4	7	—
13	— 8	— 10	— 1	— 2	— 5	— 6	— 3	— 4	— 1	3	5	2	—
14	— 2	— 3	0	— 3	— 5	— 3	— 6	— 3	6	9	10	— 4	—
15	6	10	13	24	20	13	8	— 13	— 14	4	— 11	2	—
16	— 7	1	2	— 3	— 6	— 2	— 3	— 1	3	7	11	8	—
17	2	— 5	— 2	— 1	— 2	— 12	— 7	— 8	— 1	— 2	0	3	—
18	— 4	0	4	3	0	3	2	— 2	1	2	11	13	—
19	— 1	— 4	— 3	— 7	— 5	— 4	— 2	— 2	— 2	— 4	3	7	—
20	— 9	— 6	— 5	— 6	— 5	— 3	4	4	12	11	7	— 11	—
21	— 4	— 7	— 5	— 8	— 6	— 8	— 9	— 3	— 1	— 5	1	4	—
22	— 2	0	1	— 2	— 3	— 6	— 1	— 2	0	2	5	4	—
23	— 10	— 2	— 7	— 3	— 6	13	8	— 5	— 1	4	— 11	— 4	—
24	1	2	0	0	2	3	— 7	— 1	0	— 8	6	1	—
25	— 8	— 10	— 3	— 4	— 3	— 1	4	8	— 2	— 3	— 8	— 3	—
26	5	6	7	— 1	3	2	0	— 6	— 10	— 10	— 3	2	—
27	— 3	— 6	— 8	— 8	— 10	— 9	— 9	— 3	7	7	9	5	—
28	— 2	— 3	— 6	— 10	— 9	— 8	— 9	— 12	— 9	— 11	— 6	— 1	—
29	7	— 1	— 5	— 14	6	12	6	8	— 8	— 2	— 5	— 20	—
30	5	2	5	3	3	2	— 6	— 7	3	3	1	5	—
Hourly Amount.	147	166	160	193	164	173	147	172	174	160	226	197	—

APRIL. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	4	1	— 1	3	0	1	— 3	3	3	3	4	1	63
2	— 3	— 3	— 12	— 3	— 4	0	— 1	— 2	4	2	2	— 2	151
3	10	— 3	15	21	16	10	— 11	— 23	— 20	— 21	— 17	— 2	255
4	6	12	7	2	3	5	6	15	14	14	11	— 2	150
5	— 6	— 34	— 42	— 21	1	11	12	— 3	— 10	2	11	12	236
6	— 17	— 14	— 17	9	4	7	16	— 9	— 9	— 10	— 3	3	216
7	— 26	— 39	— 27	— 15	— 11	— 1	0	4	22	8	16	5	343
8	— 9	— 16	— 8	0	3	3	8	9	8	8	— 1	6	168
9	— 12	— 21	— 12	— 3	— 2	— 4	— 2	2	2	7	2	11	155
10	— 5	— 19	— 10	1	— 1	6	7	4	11	7	— 4	13	138
11	— 6	8	4	10	5	— 17	— 21	— 39	— 24	3	— 2	— 1	195
12	14	12	2	— 3	3	0	6	8	5	9	— 4	— 6	133
13	3	4	— 2	— 2	— 3	— 3	1	5	4	— 1	— 3	— 3	84
14	— 8	0	— 7	— 4	— 4	— 10	— 15	— 4	3	10	7	7	133
15	— 16	— 14	— 4	— 19	— 14	— 1	10	9	3	6	— 5	— 5	244
16	— 6	8	10	1	0	5	6	6	2	2	0	0	100
17	8	13	10	12	6	8	— 19	— 26	— 5	— 6	0	— 5	163
18	— 7	— 20	— 15	— 6	2	10	7	3	4	2	3	1	125
19	14	9	10	7	4	5	0	1	— 4	— 3	— 8	— 10	119
20	2	5	— 3	— 3	— 1	— 1	4	2	3	4	6	0	117
21	9	11	14	— 3	— 10	— 12	5	— 4	3	1	2	— 1	136
22	7	7	6	7	8	— 9	1	3	— 14	2	6	0	98
23	8	8	5	2	1	— 3	— 4	— 4	— 1	1	1	8	120
24	— 6	9	7	9	2	— 5	— 9	0	1	— 5	3	0	87
25	18	31	28	— 3	— 16	— 25	— 24	— 2	— 12	— 14	— 4	4	238
26	5	6	11	7	1	4	2	3	2	0	0	— 7	103
27	6	5	5	5	5	3	4	3	5	2	0	— 5	127
28	15	28	41	19	26	18	18	23	— 9	— 25	— 25	— 27	360
29	— 9	— 5	— 22	— 26	— 19	— 2	4	11	9	4	9	7	221
30	9	11	6	— 2	— 9	— 1	— 3	3	3	— 2	— 2	— 8	104
Hourly Amount.	274	376	363	228	184	190	229	233	219	184	161	162	4882

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	4	3	3	2	2	2	1	1	— 5	— 4	— 7	— 6	—
2	— 4	— 7	— 11	— 11	— 10	— 10	— 7	5	2	9	9	7	—
3	4	8	7	10	— 1	3	— 5	— 22	— 20	— 9	11	7	—
4	— 1	1	0	0	1	2	— 2	— 5	— 11	— 7	— 8	— 3	—
5	4	1	8	3	4	— 3	— 4	— 8	— 8	— 2	4	4	—
6	— 12	— 14	— 3	— 8	0	3	— 2	— 1	1	— 3	3	8	—
7	— 7	— 12	— 10	— 4	— 6	— 5	— 10	— 8	13	1	— 2	5	—
8	— 5	— 6	— 3	— 2	1	5	10	5	— 2	— 5	— 4	2	—
9	— 1	11	9	— 5	6	7	10	1	0	9	— 3	— 15	—
10	2	2	— 1	— 1	— 3	0	— 1	— 1	— 8	— 9	— 10	— 4	—
11	— 2	1	5	6	5	5	4	7	9	11	12	— 2	—
12	— 2	— 5	— 3	— 2	— 4	0	3	4	1	— 1	— 3	0	—
13	4	2	— 2	— 2	2	2	3	4	5	— 1	— 4	1	—
14	— 1	1	1	3	3	2	3	4	— 4	— 5	— 7	2	—
15	— 2	— 4	— 6	— 12	— 11	— 7	— 4	11	9	— 1	7	2	—
16	9	7	6	10	13	11	10	— 9	— 12	— 6	1	0	—
17	0	6	2	0	3	3	5	10	5	4	3	4	—
18	2	2	— 1	1	3	0	0	— 6	— 6	— 7	— 7	— 8	—
19	0	0	1	2	2	— 1	— 3	— 1	3	4	1	— 5	—
20	— 1	0	— 2	— 2	— 2	— 4	— 9	— 5	2	3	3	9	—
21	4	6	2	3	4	3	1	1	— 2	— 3	— 4	— 3	—
22	— 1	— 1	— 3	— 1	2	3	7	4	1	— 4	— 8	— 8	—
23	4	— 1	2	— 2	1	— 10	— 3	8	11	5	6	1	—
24	0	0	1	0	0	2	10	12	9	12	— 4	— 5	—
25	6	6	0	2	0	2	— 3	— 7	3	8	12	3	—
26	— 3	— 4	— 5	— 2	— 3	— 6	— 7	— 9	— 2	3	1	0	—
27	2	3	2	3	4	— 1	2	1	— 3	— 3	— 7	— 1	—
28	3	3	2	4	4	— 1	— 4	— 10	— 8	4	11	4	—
29	— 10	— 9	— 3	2	— 9	— 11	— 3	3	14	8	3	9	—
30	1	1	— 1	— 2	— 1	— 3	1	14	9	— 2	— 3	— 4	—
Hourly Amount.	101	127	105	107	110	117	137	187	188	153	168	132	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
APRIL. 1	17	19	13	9	10	4	3	— 4	— 5	— 8	— 8	— 7	147
2	5	6	5	— 5	— 5	— 3	— 4	— 3	— 4	— 1	1	5	139
3	— 2	7	— 1	— 5	— 6	— 2	7	13	10	10	4	— 4	178
4	4	3	0	2	1	0	0	0	— 4	— 4	— 3	6	68
5	9	23	20	10	— 3	— 9	— 7	0	3	0	— 9	— 11	157
6	22	21	8	— 10	— 5	— 5	— 8	3	8	4	0	— 6	158
7	10	18	13	10	6	— 1	2	— 5	— 11	— 3	— 6	0	168
8	7	8	— 2	— 6	— 6	— 4	— 4	— 3	— 4	— 2	4	1	101
9	— 4	1	— 1	— 1	0	— 1	— 2	— 2	— 1	— 3	5	— 2	100
10	6	12	7	4	4	— 3	— 5	— 5	— 7	— 3	— 2	— 9	109
11	— 13	— 19	— 11	— 5	— 2	13	11	16	13	— 2	1	1	176
12	— 12	— 9	— 3	1	4	3	— 1	— 3	— 1	0	3	4	72
13	— 1	— 3	— 7	— 3	— 1	2	0	2	1	2	2	0	56
14	— 3	— 6	3	2	2	5	6	3	— 2	— 5	— 4	— 1	78
15	10	10	4	11	4	— 5	— 10	— 9	— 4	— 2	6	9	160
16	2	— 5	— 12	— 9	— 6	— 9	— 6	— 7	— 6	— 5	— 1	0	162
17	3	— 11	— 10	— 9	— 4	— 4	10	17	0	— 1	2	4	120
18	0	13	11	6	— 3	— 8	— 3	— 1	0	0	— 1	0	89
19	— 9	— 4	0	0	3	1	2	2	2	1	1	1	49
20	— 1	— 5	5	10	3	0	— 3	— 3	— 1	1	— 3	0	77
21	— 8	— 6	— 3	10	10	6	0	0	— 1	2	— 2	0	84
22	— 4	0	1	— 5	— 5	7	3	1	7	1	— 7	— 1	85
23	— 7	— 10	— 5	— 1	2	0	2	5	2	0	— 1	— 3	92
24	— 1	— 10	— 8	— 11	— 7	1	5	2	1	5	1	1	108
25	— 14	— 19	— 9	6	12	16	11	1	5	6	5	— 3	159
26	2	3	0	— 2	1	0	0	— 1	0	2	3	6	65
27	— 2	— 1	1	1	— 2	0	0	1	0	2	3	4	49
28	— 3	— 6	— 9	— 5	— 4	— 1	— 3	— 4	9	16	17	15	150
29	— 2	— 10	1	2	1	— 1	— 5	— 6	— 4	3	— 1	0	120
30	— 14	— 15	— 10	— 6	— 3	— 4	— 5	— 9	— 9	— 7	— 12	— 10	146
Hourly Amount.	197	283	183	167	125	118	128	131	125	101	118	114	3422

EASTERLY DECLINATION. D.

,DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY. 1	2	0	2	2	3	2	— 5	— 4	— 8	— 4	1	3	—
2	3	7	— 4	1	— 4	— 4	— 13	— 16	— 12	— 5	1	0	—
3	— 1	2	11	2	4	— 1	— 9	0	8	— 1	0	— 2	—
4	0	1	— 2	1	4	— 1	— 8	— 11	— 2	10	9	— 2	—
5	— 5	8	3	4	— 4	— 3	0	6	1	3	5	11	—
6	— 2	— 1	3	4	— 1	5	9	8	5	— 1	— 3	— 5	—
7	1	— 1	— 1	— 1	0	3	— 2	— 5	— 5	2	0	0	—
8	0	— 1	3	3	1	4	2	— 12	— 9	— 8	— 4	0	—
9	— 2	0	— 1	2	3	3	0	— 4	— 7	— 6	3	5	—
10	2	2	0	1	1	1	— 7	— 14	— 14	— 9	1	10	—
11	2	2	— 1	0	— 1	— 3	— 6	— 9	— 11	— 7	— 1	2	—
12	0	0	— 1	0	1	2	4	2	5	3	0	— 8	—
13	1	— 4	— 3	— 11	— 9	— 3	— 2	12	12	— 1	— 2	— 1	—
14	— 1	2	— 1	2	2	3	— 4	— 4	— 5	— 4	1	3	—
15	1	1	4	0	— 3	1	— 1	— 1	— 4	— 1	— 1	1	—
16	0	1	2	0	1	3	1	— 4	— 4	— 3	— 2	— 2	—
17	0	— 3	— 3	— 4	— 5	— 4	— 5	— 2	0	1	4	9	—
18	— 1	0	1	2	2	4	7	3	0	— 7	— 5	— 1	—
19	1	0	— 3	— 3	— 3	— 4	— 3	— 2	— 5	2	— 4	1	—
20	0	— 3	— 3	— 2	— 1	— 1	6	2	0	— 4	— 7	— 5	—
21	0	— 2	— 2	— 2	— 1	— 2	1	2	1	0	— 5	— 7	—
22	3	0	1	— 1	0	— 1	— 4	— 2	— 3	— 6	— 9	— 11	—
23	— 1	— 4	— 4	— 2	1	— 3	— 4	— 5	— 2	— 1	1	1	—
24	2	— 5	— 1	0	1	0	— 3	0	7	16	9	4	—
25	— 2	— 1	3	1	4	6	10	5	6	2	— 3	2	—
26	1	— 3	— 2	1	2	3	9	13	12	12	4	1	—
27	3	6	8	8	9	— 6	6	10	9	0	— 1	— 1	—
28	1	0	— 2	— 2	3	— 2	3	10	8	9	3	— 1	—
29	0	— 2	— 1	1	0	2	8	8	6	4	— 3	— 7	—
30	0	— 1	— 1	— 2	— 3	— 1	7	7	7	0	— 1	0	—
31	— 2	0	— 3	— 5	— 2	0	5	2	1	3	7	1	—
Hourly Amount.	40	63	80	70	79	81	154	185	179	135	100	107	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
MAY. 1	0	— 1	— 2	0	3	1	3	3	2	1	6	5	63
2	10	20	12	3	— 4	4	3	2	— 4	— 4	— 4	— 4	144
3	— 7	— 7	4	7	2	0	— 6	1	3	— 2	1	— 1	82
4	0	2	0	1	0	— 1	— 1	— 1	— 8	— 3	— 3	— 4	75
5	4	4	0	— 1	— 1	— 5	— 3	— 5	— 3	— 1	— 3	— 2	85
6	— 8	— 7	— 6	— 4	— 4	0	2	0	4	5	— 1	2	90
7	— 2	1	3	6	4	— 2	0	1	1	2	2	0	45
8	5	0	— 4	0	3	1	0	2	2	3	2	0	69
9	4	6	4	3	— 5	— 3	— 1	2	2	4	2	3	75
10	8	1	— 2	4	3	1	1	2	1	5	— 1	3	94
11	8	5	2	4	2	3	3	2	2	2	1	0	79
12	— 12	— 10	— 4	1	1	3	5	6	1	— 3	2	4	78
13	3	8	4	— 2	1	— 2	— 1	2	— 4	3	2	2	95
14	— 1	— 3	0	— 3	3	2	3	— 9	— 2	4	2	3	67
15	— 3	— 1	7	3	2	— 1	2	2	2	— 1	3	1	47
16	2	2	— 1	— 2	— 5	1	3	1	2	1	1	— 2	46
17	11	12	9	— 1	— 1	1	— 2	— 6	— 6	— 3	— 3	1	96
18	— 1	— 4	— 5	— 7	— 2	3	5	6	1	3	2	— 1	73
19	9	10	10	10	2	1	— 1	0	1	— 2	— 2	- 1	80
20	— 3	— 6	— 2	2	3	2	4	4	3	3	4	0	70
21	— 6	— 3	— 2	1	5	2	1	1	4	4	5	3	62
22	— 4	— 1	7	3	4	5	4	5	3	4	1	1	83
23	6	5	2	0	1	- 5	— 3	— 3	— 2	— 4	— 1	— 3	64
24	8	4	6	0	- 2	— 4	— 7	5	— 5	— 5	— 15	— 5	114
25	— 3	— 3	— 7	— 2	0	0	1	0	0	— 4	— 1	— 1	67
26	— 6	— 15	— 16	— 10	— 8	- 5	— 4	— 2	- 4	- 2	— 1	3	139
27	— 3	— 2	— 6	— 9	— 6	— 7	— 4	0	3	— 3	1	3	114
28	- 2	— 3	— 6	— 1	2	0	0	— 7	- 1	— 4	0	— 2	72
29	— 8	— 6	— 3	— 1	0	3	1	2	3	0	2	— 1	72
30	— 5	— 8	— 3	— 5	1	2	2	2	3	0	0	— 2	63
31	— 1	— 1	— 2	2	— 1	— 3	— 5	— 3	— 3	- 1	2	1	56
Hourly Amount.	153	161	141	98	81	73	81	87	85	86	76	64	2459

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY. 1	0	2	2	— 4	— 5	— 2	1	— 1	4	7	4	1	—
2	— 10	— 1	— 5	— 6	— 6	— 7	— 3	1	1	14	19	9	—
3	16	13	9	15	11	12	9	— 12	— 17	2	9	— 25	—
4	0	— 4	2	— 2	3	4	10	16	5	— 11	— 12	— 3	—
5	— 1	— 2	— 3	— 3	— 2	1	— 1	— 4	1	— 1	— 3	— 5	—
6	1	— 5	— 4	— 1	1	— 3	0	2	3	— 1	4	3	—
7	0	— 3	— 1	— 1	0	2	6	3	5	0	— 3	3	—
8	— 3	— 3	— 3	3	3	— 3	— 1	1	2	1	1	— 2	—
9	— 4	— 3	— 2	0	— 3	— 5	0	— 3	— 3	6	3	5	—
10	— 1	— 6	— 3	— 6	— 6	— 8	— 11	— 7	0	6	5	11	—
11	— 7	— 2	— 1	— 3	— 8	— 10	— 13	— 6	— 3	1	3	14	—
12	— 3	— 5	— 6	— 8	— 13	— 8	— 10	— 7	— 10	1	11	24	—
13	— 14	7	3	7	13	— 1	5	— 7	— 10	— 4	— 5	— 4	—
14	— 1	10	4	0	— 2	3	7	2	6	9	— 8	— 3	—
15	2	4	— 2	4	— 5	— 2	— 3	7	8	6	7	— 10	—
16	— 2	— 2	— 2	— 3	— 4	— 5	— 6	2	— 2	7	5	— 1	—
17	6	0	— 2	— 7	— 2	— 11	— 5	— 5	3	4	— 2	8	—
18	— 6	— 3	2	1	2	1	5	12	3	— 1	— 8	— 1	—
19	— 3	— 1	— 1	0	1	5	8	12	26	— 4	0	1	—
20	0	4	3	— 4	— 7	— 4	— 3	— 5	1	4	0	— 3	—
21	— 1	— 2	— 3	— 1	— 3	6	4	0	1	5	1	0	—
22	— 1	0	2	0	— 4	— 2	— 3	0	— 4	— 1	3	7	—
23	— 13	— 9	— 4	— 1	0	3	6	3	3	1	— 1	— 5	—
24	12	16	16	22	29	15	— 4	— 3	— 16	— 28	— 26	— 10	—
25	1	6	4	4	9	11	— 1	12	6	— 5	— 11	— 13	—
26	17	6	1	2	— 4	— 10	— 6	— 6	— 9	— 2	2	7	—
27	4	— 9	— 12	— 1	— 7	12	— 5	— 2	— 1	1	0	11	—
28	— 5	— 9	13	— 3	2	4	10	— 1	6	— 7	— 1	— 12	—
29	3	— 3	— 7	— 4	— 6	— 6	— 1	2	1	2	8	8	—
30	3	2	— 4	— 2	3	2	— 1	— 4	— 6	— 3	0	0	—
31	5	1	3	1	10	8	6	5	2	— 5	1	— 14	—
Hourly Amount.	145	143	129	119	174	176	154	153	168	150	166	223	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
MAY. 1	2	3	5	6	7	10	11	6	5	9	— 2	— 6	105
2	6	— 29	— 26	— 11	— 9	— 15	— 16	— 13	1	15	19	19	261
3	— 28	— 11	— 12	0	3	— 4	2	4	3	10	4	10	241
4	0	— 1	3	— 4	— 2	— 3	— 10	— 4	4	3	10	4	120
5	7	9	5	— 5	— 5	— 1	— 6	4	2	— 2	0	— 2	75
6	7	0	7	0	4	6	4	— 4	— 13	— 14	0	— 2	89
7	1	5	7	2	3	5	2	— 3	— 7	— 3	— 4	— 3	72
8	8	4	0	— 3	— 1	— 1	1	— 1	6	1	0	0	52
9	1	1	7	4	— 1	— 1	1	0	— 2	— 3	— 5	— 1	64
10	13	12	9	2	2	5	8	5	— 1	— 7	— 8	— 7	149
11	7	12	8	7	— 1	— 2	— 3	— 2	1	— 11	— 2	2	129
12	8	10	17	16	26	12	11	8	8	1	— 13	— 11	247
13	— 7	— 7	— 3	1	— 3	— 2	1	— 3	3	— 2	— 7	— 8	127
14	— 9	— 4	— 6	1	— 2	— 2	1	13	8	— 3	— 5	— 7	116
15	— 7	— 2	1	4	0	— 6	— 3	— 4	— 2	13	5	— 1	108
16	— 1	— 5	2	1	3	0	— 6	— 2	— 3	— 3	2	5	74
17	12	15	8	10	1	— 2	— 7	— 5	— 1	2	— 4	— 6	128
18	— 4	— 13	— 18	— 3	2	3	2	— 2	0	0	3	3	98
19	— 16	— 9	0	— 6	3	2	3	2	5	5	6	5	124
20	— 4	3	4	— 2	— 6	— 6	— 1	0	— 1	— 1	— 3	— 2	71
21	— 3	— 2	— 1	— 6	— 5	2	3	3	2	2	0	— 1	57
22	14	13	9	5	1	2	— 2	— 1	— 3	— 9	— 4	— 5	95
23	— 5	— 7	— 5	— 6	— 4	2	4	9	7	11	11	14	134
24	— 7	— 1	— 13	— 9	— 21	— 24	— 10	— 1	4	— 2	24	2	315
25	— 3	— 11	— 14	— 2	— 7	0	— 4	— 2	— 5	18	1	1	151
26	7	12	— 2	— 21	— 3	3	— 3	— 3	— 4	— 3	1	9	143
27	12	8	6	15	11	15	11	0	1	— 8	— 10	— 7	169
28	— 9	— 6	— 3	— 6	— 3	— 8	— 6	4	3	3	— 2	— 5	131
29	12	4	— 1	6	1	0	5	4	— 4	— 2	1	5	96
30	5	0	8	11	7	9	— 1	— 12	— 9	— 10	— 13	— 7	122
31	— 11	— 8	— 3	— 8	— 3	5	10	— 1	— 11	— 7	— 6	— 5	139
Hourly Amount.	236	227	213	183	150	158	158	125	129	183	175	165	4002

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 9	— 5	— 5	— 1	0	— 3	0	4	6	— 1	— 8	— 6	—
2	9	5	9	9	8	12	10	1	— 7	— 16	— 19	— 15	—
3	— 7	— 4	— 1	— 5	— 1	— 3	1	9	5	— 1	— 5	17	—
4	1	2	— 2	— 2	— 3	— 3	— 6	— 5	— 3	8	7	5	—
5	2	— 1	— 1	— 1	— 1	— 3	— 3	— 3	— 9	— 8	— 4	6	—
6	— 5	— 1	— 3	— 5	— 7	— 4	— 8	— 4	— 2	2	6	7	—
7	— 4	— 1	— 1	1	2	2	3	2	— 1	— 1	— 1	— 1	—
8	— 1	— 3	— 5	— 8	— 5	— 1	3	9	9	4	5	— 1	—
9	4	6	5	4	6	10	11	1	— 1	— 8	— 7	— 10	—
10	3	4	2	2	2	4	5	1	— 1	- 5	— 7	— 5	—
11	5	1	2	2	4	8	9	6	3	— 4	- 9	— 15	—
12	1	2	1	3	4	0	0	8	9	3	1	— 3	—
13	4	— 5	— 3	— 7	— 8	— 2	— 5	3	11	12	10	7	—
14	0	— 7	— 2	— 2	— 2	— 5	— 5	6	6	3	3	— 2	—
15	0	0	4	4	6	6	4	— 5	— 5	- 3	— 7	8	—
16	2	2	0	0	1	2	2	10	12	9	— 2	— 4	—
17	1	6	7	8	9	6	2	— 5	— 14	— 17	— 11	— 12	—
18	— 3	— 4	— 7	— 7	— 8	— 7	— 6	2	9	11	10	8	—
19	10	10	12	13	13	15	12	— 12	— 14	— 5	— 1	— 15	—
20	— 3	— 3	— 3	0	2	1	— 2	2	4	8	9	1	—
21	5	7	8	9	11	6	9	— 5	— 11	— 13	- 1	0	—
22	0	0	0	1	3	3	1	3	7	9	6	— 4	—
23	6	3	— 1	— 3	— 3	— 4	— 5	2	3	1	— 1	3	—
24	— 2	— 3	— 4	— 5	— 10	— 3	8	2	— 2	5	6	2	—
25	1	— 3	— 2	— 1	— 2	0	10	— 10	0	2	6	1	—
26	— 9	— 4	— 3	— 4	— 3	— 2	— 8	— 6	2	6	5	6	—
27	— 6	2	1	— 1	0	— 9	— 3	0	0	0	5	— 4	—
28	— 2	— 2	— 15	— 5	— 11	— 15	— 20	5	2	12	10	15	—
29	1	2	3	1	0	- 2	— 4	— 11	— 8	— 6	— 2	8	—
30	0	2	3	2	— 2	- 3	— 9	— 9	— 6	— 3	1	1	—
31	— 4	— 1	— 2	0	— 5	— 3	— 5	1	0	— 1	— 5	8	—
Hourly Amount.	110	101	117	116	142	147	179	152	172	187	180	200	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 6	— 4	— 7	— 8	— 2	— 2	— 4	— 3	0	— 1	5	9	99
2	— 10	15	16	14	8	3	2	1	— 3	— 10	— 12	— 11	225
3	11	— 1	— 4	— 6	— 2	4	3	0	— 1	— 3	— 3	— 5	102
4	— 2	— 3	— 1	2	2	4	6	2	— 2	— 2	- 5	— 4	82
5	7	7	9	12	9	4	5	— 1	— 2	— 3	— 4	— 5	110
6	5	4	7	11	6	0	1	3	6	5	— 4	— 1	107
7	— 4	— 7	— 14	— 7	1	0	1	3	5	0	1	— 2	65
8	— 4	4	1	— 5	— 4	— 1	— 2	0	— 2	0	1	1	79
9	— 6	— 8	— 6	2	2	— 2	— 4	— 2	— 2	0	1	0	108
10	0	— 4	— 5	— 3	— 3	— 2	— 2	0	1	7	7	3	78
11	- 9	— 8	— 6	— 6	— 2	1	2	1	— 1	4	1	- 2	111
12	5	— 7	— 19	— 14	— 11	- 4	— 2	1	— 2	4	8	3	115
13	3	— 4	— 7	— 6	— 5	- 2	— 2	1	1	0	1	3	112
14	2	2	4	0	— 3	1	1	- 2	— 3	2	6	5	74
15	3	- 8	— 9	- 8	— 3	4	0	2	— 2	— 2	— 5	- 1	99
16	- 8	- 6	— 2	— 4	— 3	- 2	2	- 1	1	3	1	1	80
17	- 5	— 1	8	8	8	3	4	3	— 3	— 6	— 3	- 1	151
18	10	12	15	2	— 7	- 8	— 6	- 4	— 1	0	- 1	2	150
19	- 8	— 4	— 7	0	— 4	- 6	— 3	— 2	— 4	— 2	- 4	- 5	181
20	0	— 2	— 3	— 4	1	1	0	- 1	1	3	3	2	59
21	- 2	— 4	- 1	0	- 1	- 1	— 3	- 4	- 5	— 4	- 4	- 2	116
22	- 15	— 18	- 15	— 8	0	2	4	3	4	6	3	3	118
23	— 2	— 2	— 3	— 3	3	3	1	- 1	0	1	— 1	- 4	59
24	1	4	9	7	16	13	3	- 3	— 5	— 3	— 10	2	128
25	- 1	1	— 2	- 11	— 3	- 2	2	3	3	— 8	2	0	76
26	11	8	10	17	3	- 1	0	0	1	- 2	- 2	- 6	119
27	— 10	— 4	3	0	— 3	— 3	— 3	0	1	4	6	2	70
28	17	15	9	5	— 1	— 1	— 1	— 5	— 5	- 3	- 1	2	179
29	6	5	6	2	- 1	2	— 1	— 1	4	2	1	- 1	80
30	5	5	5	— 1	- 5	- 4	0	7	1	2	4	2	82
31	11	10	10	10	6	1	— 4	1	8	7	7	8	118
Hourly Amount.	189	187	223	186	128	87	74	61	80	99	117	98	3332

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE. 1	2	2	2	6	— 4	— 1	2	— 4	2	— 1	— 3	— 2	—
2	2	— 2	1	— 1	1	3	3	— 3	— 7	— 9	— 8	— 2	—
3	1	1	0	0	— 1	4	6	4	— 1	— 1	— 1	— 1	—
4	1	0	1	— 1	0	1	5	5	— 1	— 4	— 4	0	—
5	3	4	0	1	1	— 6	— 14	— 14	— 12	— 10	— 2	8	—
6	— 13	— 12	— 10	— 10	— 3	— 3	— 6	2	6	2	4	— 2	—
7	0	— 3	— 1	— 1	— 3	— 3	1	— 1	0	0	0	4	—
8	0	0	1	2	1	5	4	— 2	— 1	3	3	0	—
9	3	3	2	2	1	2	1	8	3	1	— 2	— 5	—
10	4	2	0	— 2	— 1	— 6	— 9	— 3	— 1	1	0	— 2	—
11	— 5	0	— 1	— 1	0	2	1	5	4	0	— 5	— 3	—
12	2	0	0	— 1	— 1	— 1	— 4	— 8	— 6	— 1	8	2	—
13	0	1	0	0	1	0	3	6	0	— 2	0	— 1	—
14	0	— 1	— 2	— 3	— 4	— 3	— 6	— 5	— 5	— 4	1	2	—
15	0	— 1	— 1	— 3	— 2	— 4	— 2	3	4	— 2	— 7	— 8	—
16	— 2	— 4	— 3	— 4	— 3	— 5	— 6	— 7	— 6	— 3	— 1	— 1	—
17	— 6	— 7	— 4	— 3	— 2	— 3	— 2	— 3	0	— 1	2	6	—
18	— 4	— 4	— 3	— 1	2	— 1	3	— 1	1	— 3	— 1	— 3	—
19	5	2	2	5	2	3	— 1	— 2	— 4	— 4	— 4	— 2	—
20	1	2	4	4	1	0	2	3	0	4	0	5	—
21	2	— 1	1	1	1	6	1	4	0	1	4	4	—
22	0	0	1	0	8	5	7	2	6	5	0	— 1	—
23	0	13	3	6	4	5	— 1	0	3	3	1	— 2	—
24	2	1	0	— 2	0	— 2	4	4	5	8	5	2	—
25	0	— 1	1	1	1	— 1	— 1	— 1	— 5	0	1	6	—
26	0	0	0	0	— 2	— 3	2	— 1	3	4	2	2	—
27	1	0	0	— 1	— 1	2	7	10	5	7	2	— 1	—
28	4	4	3	1	2	0	— 2	— 2	— 1	— 1	3	3	—
29	1	3	2	1	1	— 1	0	3	3	2	— 1	0	—
30	— 4	0	2	2	1	4	— 1	2	3	5	4	4	—
Hourly Amount.	68	74	51	66	55	85	107	118	98	92	79	84	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JUNE. 1	— 5	4	2	6	— 1	— 2	2	1	— 2	3	3	3	65
2	0	1	— 1	1	0	1	2	3	3	— 1	2	1	58
3	— 2	— 4	— 3	— 1	— 1	— 1	— 2	— 1	— 1	— 1	1	2	41
4	4	1	— 3	— 3	— 4	— 1	— 1	0	2	2	4	4	52
5	15	6	7	2	5	21	21	16	— 1	1	— 5	— 10	185
6	— 7	— 4	— 1	6	1	2	3	2	4	— 1	— 2	1	107
7	3	6	5	— 1	— 3	— 2	— 1	— 1	0	0	— 1	0	40
8	— 2	— 5	— 9	— 6	— 6	— 6	— 3	— 1	— 3	2	3	4	72
9	— 4	— 8	— 9	— 4	2	— 2	— 3	1	2	3	4	4	79
10	— 2	— 5	3	2	8	20	4	— 2	1	— 1	— 1	— 4	84
11	— 6	— 2	1	1	0	— 2	3	— 1	2	0	0	3	48
12	3	5	3	2	2	— 1	— 4	1	— 3	— 4	— 2	— 1	65
13	— 3	— 1	6	2	— 2	0	1	1	2	3	4	2	41
14	3	— 2	0	4	10	7	2	2	1	1	1	0	69
15	— 4	0	0	4	6	2	3	4	6	6	0	— 2	74
16	1	8	8	9	7	2	3	3	4	1	0	— 5	96
17	6	7	5	5	3	1	0	1	0	0	— 2	— 5	74
18	— 1	— 2	0	0	1	— 2	— 2	— 2	4	1	— 1	0	43
19	— 1	— 3	— 7	— 3	8	— 2	5	5	4	— 2	0	— 1	77
20	— 4	— 2	— 2	— 1	0	— 2	— 2	— 3	1	— 2	— 1	— 2	48
21	3	2	— 4	— 3	— 1	— 4	— 5	— 4	— 4	— 5	— 4	— 2	67
22	— 1	0	— 3	— 8	— 7	— 5	— 4	— 10	3	0	0	3	79
23	— 8	— 11	— 1	— 6	— 8	— 3	— 1	2	1	1	1	0	84
24	0	0	— 3	— 2	— 6	— 2	— 2	— 1	— 1	— 1	0	0	53
25	4	4	2	2	— 1	1	0	— 2	— 4	— 3	— 2	— 1	45
26	5	1	0	2	1	— 4	— 5	— 4	— 5	— 4	— 1	0	51
27	— 3	— 3	— 2	— 3	— 1	— 5	— 5	— 3	— 2	0	1	4	69
28	— 2	— 1	5	1	— 4	— 4	— 3	— 2	— 3	0	0	1	52
29	6	3	— 2	— 4	— 5	— 4	— 3	— 3	— 2	— 2	— 2	— 3	57
30	3	5	5	— 4	— 7	— 12	— 4	— 3	0	0	— 1	3	79
Hourly Amount.	111	106	102	98	111	123	99	85	71	51	49	71	2054

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JUNE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	3	1	10	— 5	16	10	7	9	— 5	— 3	0	— 1	—
2	— 4	10	0	— 1	— 4	— 4	— 5	— 4	2	1	— 1	3	—
3	— 9	— 8	— 2	— 5	— 2	0	1	1	4	5	— 2	— 2	—
4	— 3	— 3	— 1	1	1	0	2	3	4	2	— 1	— 4	—
5	5	2	— 2	— 2	— 4	— 7	— 15	— 20	— 19	— 1	0	11	—
6	— 7	— 5	3	4	1	— 5	— 3	— 2	0	8	— 5	5	—
7	3	0	— 3	— 2	— 4	— 5	— 7	— 9	— 3	— 1	4	5	—
8	— 6	— 3	— 6	— 7	— 7	— 6	— 1	0	1	9	2	4	—
9	— 4	— 13	— 8	— 5	— 3	— 2	— 2	— 2	3	5	16	9	—
10	6	6	4	4	7	10	4	3	— 10	— 15	— 8	— 10	—
11	3	6	2	7	4	— 1	3	— 1	2	9	5	— 1	—
12	2	— 1	— 4	— 2	— 1	0	— 1	— 4	— 3	0	4	3	—
13	9	9	8	10	10	6	1	— 1	1	— 9	— 2	— 6	—
14	1	3	1	2	2	0	— 1	— 4	— 3	0	3	5	—
15	0	— 1	— 2	— 1	— 2	— 2	— 3	— 2	3	2	3	1	—
16	2	4	2	2	0	2	0	— 3	— 3	— 4	— 1	3	—
17	0	— 2	— 3	— 4	— 6	— 5	— 2	0	3	3	3	2	—
18	1	0	0	— 8	— 9	0	0	3	— 11	— 11	— 12	2	—
19	0	0	2	— 3	6	13	15	10	1	— 11	— 7	— 11	—
20	3	5	— 1	4	4	6	6	0	8	6	— 5	— 4	—
21	5	7	1	7	1	0	5	— 1	1	1	— 1	0	—
22	7	7	5	11	9	16	3	15	— 1	0	— 2	— 20	—
23	— 2	— 7	20	1	3	1	5	10	10	— 1	1	— 2	—
24	— 3	— 6	— 6	— 2	— 4	— 6	— 1	2	2	— 2	— 4	— 1	—
25	3	3	— 2	1	— 6	— 8	— 6	— 5	1	3	2	0	—
26	— 10	— 4	— 2	0	1	1	3	3	0	3	2	— 1	—
27	0	0	— 3	— 1	4	1	3	8	13	8	6	0	—
28	— 1	— 3	— 7	— 8	— 8	— 11	— 8	— 3	0	1	5	3	—
29	0	— 6	— 7	— 1	— 5	— 7	— 8	— 8	— 5	— 5	0	6	—
30	— 1	0	— 2	0	— 3	2	4	— 3	— 3	— 4	2	0	—
Hourly Amount.	103	125	119	111	137	137	125	139	125	133	109	125	—

JUNE.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	3	— 17	— 15	— 17	1	— 3	0	6	3	— 2	5	4	146
2	8	5	4	0	3	6	9	4	— 6	5	— 9	— 9	107
3	0	— 1	3	2	0	2	4	1	1	1	— 1	— 4	61
4	— 4	— 1	— 1	2	5	6	10	13	14	15	8	3	107
5	23	25	35	42	15	— 18	— 42	— 27	— 25	— 27	— 27	— 21	415
6	12	4	3	— 2	8	8	5	7	7	8	8	6	126
7	7	6	6	3	4	2	4	2	— 6	— 9	— 5	— 5	103
8	4	3	6	4	9	14	5	2	6	4	2	— 4	115
9	— 14	— 9	— 9	— 4	— 1	2	2	— 1	5	6	5	6	136
10	— 1	8	4	— 9	— 11	— 49	— 5	— 6	1	— 2	6	7	196
11	5	3	4	— 1	— 4	1	— 7	4	— 2	2	2	— 4	83
12	6	4	— 3	— 6	— 8	— 5	0	4	— 3	4	8	9	85
13	— 2	— 12	— 14	— 8	— 2	— 5	— 1	5	4	2	2	3	132
14	1	3	— 1	— 4	— 5	— 1	1	0	— 1	— 1	0	— 1	44
15	5	— 1	— 7	— 6	— 4	0	2	2	2	2	3	3	59
16	2	2	— 2	— 1	— 4	— 1	— 1	— 2	1	0	0	— 2	44
17	2	2	— 4	— 3	— 3	3	10	0	1	3	3	4	71
18	13	7	0	5	4	10	7	7	17	— 12	— 9	— 4	152
19	— 21	— 3	10	5	— 5	13	— 11	— 25	— 14	1	— 6	1	194
20	— 7	— 8	— 7	1	2	5	1	3	— 6	1	3	5	101
21	— 7	— 2	— 9	— 15	— 17	— 11	3	— 3	— 2	— 5	6	8	118
22	— 17	— 4	— 7	— 10	— 3	1	0	8	— 9	— 3	— 1	— 1	160
23	— 9	— 9	— 5	— 4	— 5	2	3	1	11	4	1	0	117
24	— 3	— 2	2	4	2	— 1	— 1	1	2	3	— 1	— 1	62
25	— 2	7	10	10	6	2	0	— 3	3	— 2	— 8	— 5	98
26	— 5	— 2	— 3	— 2	2	4	5	0	1	— 1	— 2	0	57
27	— 11	— 10	— 3	— 1	— 1	2	3	3	1	1	2	2	87
28	3	1	— 1	4	2	3	5	7	5	3	1	1	94
29	8	7	6	6	1	— 2	— 1	— 2	— 1	1	— 1	2	96
30	5	— 3	3	9	11	12	— 4	— 2	— 8	1	4	— 2	88
Hourly Amount.	210	171	187	190	148	194	152	151	168	131	139	127	3456

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JUNE.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 2	0	— 3	3	— 7	— 4	— 1	2	5	1	— 4	— 5	—
2	1	— 6	0	2	2	1	1	— 1	— 2	1	— 2	— 3	—
3	2	1	— 1	1	2	— 1	— 1	— 2	— 5	— 4	0	— 3	—
4	0	1	0	0	3	2	1	4	— 1	1	— 2	— 6	—
5	0	3	5	8	7	13	17	3	3	— 6	— 12	— 16	—
6	— 4	— 8	— 13	— 12	— 9	— 7	— 7	— 5	3	4	19	11	—
7	— 1	0	0	0	1	— 1	0	7	5	8	2	— 4	—
8	— 3	— 5	— 5	— 5	— 8	— 8	— 9	1	0	— 3	8	12	—
9	1	3	— 1	— 2	— 4	— 5	— 6	3	4	0	— 5	— 4	—
10	0	1	1	3	0	— 1	3	0	7	9	6	4	—
11	0	1	0	— 2	— 1	1	1	0	2	3	2	3	—
12	3	6	7	4	4	2	4	— 3	— 9	— 11	— 12	3	—
13	— 3	— 1	— 3	— 3	— 3	— 2	— 1	2	2	5	2	2	—
14	4	5	6	5	6	9	8	3	— 3	— 8	— 9	— 8	—
15	2	3	4	3	4	3	1	— 5	— 5	0	4	3	—
16	— 2	— 2	— 1	— 3	— 5	— 7	— 7	8	7	7	5	3	—
17	9	9	11	11	11	11	6	— 10	— 18	— 17	— 14	— 5	—
18	0	1	1	5	7	5	5	7	9	7	5	— 6	—
19	— 2	— 4	— 3	— 1	— 4	— 10	— 10	— 5	1	8	3	8	—
20	— 6	— 9	— 2	— 3	— 3	— 5	— 2	— 1	— 6	— 2	3	5	—
21	— 5	— 6	— 3	— 4	— 1	1	— 1	2	5	0	1	— 3	—
22	— 6	— 5	— 4	— 4	— 1	— 6	2	— 3	9	7	4	3	—
23	— 1	0	— 14	— 2	— 2	— 1	— 4	2	0	6	4	4	—
24	2	2	1	— 3	— 4	— 1	— 6	— 9	— 3	1	6	8	—
25	— 2	— 2	0	— 2	0	1	1	1	— 4	— 9	— 6	5	—
26	4	2	0	0	0	0	— 2	— 7	— 11	— 6	— 5	2	—
27	— 1	— 2	— 1	— 2	— 7	— 7	— 10	4	2	2	2	4	—
28	4	7	8	7	7	8	6	3	4	3	— 3	— 3	—
29	5	7	7	3	5	7	10	— 1	— 4	— 2	— 6	— 8	—
30	— 2	— 1	0	0	1	1	0	2	3	— 1	— 2	1	—
Hourly Amount.	77	103	105	103	119	131	133	106	142	142	158	155	—

JUNE.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 4	5	8	7	1	2	0	— 3	— 3	0	— 3	— 3	76
2	— 2	3	6	3	4	— 1	— 3	— 1	4	— 2	4	4	59
3	0	1	1	1	0	1	1	0	0	1	0	0	29
4	— 3	0	2	1	— 1	— 2	— 4	— 4	— 5	— 4	— 1	2	50
5	— 8	1	1	— 11	0	7	22	13	11	10	8	5	190
6	1	1	— 6	— 8	— 8	— 7	— 2	— 2	— 1	— 2	— 2	— 2	144
7	— 8	— 8	— 5	3	1	2	0	0	3	5	1	— 2	67
8	9	7	2	2	— 2	— 4	0	2	— 1	— 2	— 1	1	100
9	11	11	3	— 1	— 2	— 1	— 1	1	— 1	— 1	— 1	— 1	73
10	— 2	— 12	— 13	— 2	— 2	20	1	2	— 3	1	— 4	0	97
11	0	— 10	— 8	— 3	1	— 3	1	— 1	1	2	3	6	55
12	3	0	3	2	3	2	2	— 1	1	— 2	— 3	— 2	92
13	— 7	— 4	3	1	— 2	2	— 2	— 2	— 2	2	3	4	61
14	— 8	— 6	0	— 3	— 3	— 1	— 2	— 1	2	1	1	1	103
15	— 1	— 2	2	5	4	3	— 1	— 1	— 1	— 3	— 1	— 1	62
16	3	— 3	— 6	— 5	— 3	— 4	— 3	— 3	— 1	2	4	7	103
17	3	7	8	0	— 1	— 4	— 5	— 3	— 3	— 4	— 3	— 4	177
18	— 18	— 14	— 2	— 6	— 4	— 3	1	0	— 6	9	5	0	126
19	12	7	5	6	4	— 5	5	10	5	— 5	— 2	— 5	130
20	6	5	9	4	1	— 1	— 2	— 2	2	— 2	— 4	— 5	90
21	7	8	10	11	10	7	— 3	— 1	— 1	— 1	— 8	— 9	108
22	0	— 7	— 6	— 2	— 3	— 3	0	0	6	3	2	0	86
23	1	3	— 12	— 8	— 3	— 2	1	3	— 1	3	3	3	83
24	12	13	6	3	0	— 1	— 2	— 3	— 2	— 1	0	1	90
25	8	2	— 1	0	1	0	2	2	— 1	2	8	5	65
26	3	4	4	2	— 2	0	— 3	— 1	— 3	— 2	— 2	— 2	67
27	4	4	— 7	— 3	1	— 1	— 3	— 3	— 1	1	0	1	73
28	— 9	— 11	— 10	— 3	0	— 2	— 6	— 5	— 4	— 3	0	2	118
29	— 6	— 2	6	7	4	0	0	— 1	— 1	— 3	— 3	— 3	101
30	— 4	— 4	— 5	— 8	— 3	— 2	5	4	3	— 4	— 5	— 3	64
Hourly Amount.	163	165	160	121	74	93	83	75	79	83	85	84	2739

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY. 1	3	3	4	4	3	2	— 3	— 3	— 2	— 2	— 3	— 2	—
2	0	1	2	0	1	1	2	1	4	0	0	0	—
3	3	0	2	2	0	0	3	0	— 1	— 2	— 5	— 2	—
4	0	— 1	— 3	— 4	— 4	— 3	2	6	6	1	1	2	—
5	0	0	2	4	1	— 2	— 1	0	— 6	— 6	— 4	6	—
6	1	0	0	1	1	— 2	0	2	1	— 2	— 3	— 3	—
7	— 3	— 3	— 5	— 9	— 2	0	0	0	3	9	8	4	—
8	— 17	— 7	— 6	— 10	— 10	2	0	12	17	22	15	6	—
9	— 1	— 1	— 1	2	0	0	— 6	— 2	— 5	— 2	0	6	—
10	0	0	— 3	0	0	— 1	— 3	2	— 1	0	0	— 1	—
11	— 3	1	— 1	— 5	— 1	— 2	0	— 1	0	— 1	5	5	—
12	— 4	— 4	— 4	— 2	— 7	— 4	— 6	— 3	4	— 2	1	8	—
13	— 5	— 4	— 8	— 6	— 6	— 4	— 3	0	— 1	0	3	6	—
14	0	— 9	— 5	— 6	— 5	— 9	— 3	1	0	4	0	1	—
15	— 1	1	3	2	1	2	1	2	2	4	— 2	— 5	—
16	— 2	1	3	2	0	0	2	1	1	7	9	8	—
17	1	1	3	3	— 1	1	3	1	— 2	— 2	— 5	1	—
18	4	1	2	4	2	5	— 2	— 1	1	— 2	— 1	0	—
19	2	10	— 1	7	6	5	5	— 5	— 1	0	— 1	1	—
20	— 1	3	2	4	5	3	0	— 3	— 2	1	2	2	—
21	1	3	4	2	6	5	1	— 2	— 8	— 7	— 1	— 1	—
22	3	1	0	1	0	0	2	1	— 1	— 7	— 3	— 6	—
23	4	0	0	— 1	0	1	— 1	— 6	— 6	— 12	— 8	— 3	—
24	2	— 1	3	4	3	— 1	6	8	5	— 1	— 9	— 12	—
25	1	— 1	0	— 1	0	0	4	2	1	— 1	— 4	— 6	—
26	2	1	3	2	0	1	1	— 1	— 5	— 7	1	1	—
27	4	2	4	3	1	0	— 1	— 2	— 1	— 1	1	— 8	—
28	— 1	— 4	— 2	— 3	— 1	— 1	5	7	6	— 2	5	0	—
29	6	4	5	4	3	1	— 3	— 7	— 2	9	— 7	— 10	—
30	— 1	0	— 3	— 5	— 2	2	— 1	— 9	— 3	3	5	4	—
31	2	1	1	2	3	1	0	— 2	— 4	— 4	— 5	— 3	
Hourly Amount.	78	69	85	105	75	61	70	93	102	123	117	123	

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JULY. 1	1	0	0	— 2	— 4	— 3	0	0	0	1	1	— 1	47
2	— 3	— 3	— 1	0	1	1	0	— 2	— 2	0	1	4	30
3	— 7	— 4	— 3	— 1	0	1	0	0	1	2	0	1	40
4	6	7	9	3	— 7	— 6	— 3	— 4	— 4	— 3	0	0	85
5	3	5	4	1	1	1	— 4	0	— 2	0	0	1	54
6	— 6	3	— 5	2	1	5	7	2	2	0	— 1	— 3	53
7	0	— 4	— 1	— 1	3	0	0	18	3	— 3	— 9	— 9	97
8	— 6	1	— 6	— 7	— 5	— 3	— 2	— 3	3	— 1	— 4	0	165
9	5	2	2	6	1	3	1	1	— 1	— 1	— 3	— 5	57
10	— 2	2	1	5	1	5	0	— 2	— 3	1	5	— 4	42
11	4	4	10	0	— 3	2	3	2	— 6	— 1	— 2	— 1	63
12	8	6	6	1	1	4	0	3	— 2	0	— 3	— 2	85
13	7	13	10	3	— 1	1	3	4	5	1	— 2	— 3	99
14	1	6	4	7	2	0	— 3	— 1	— 1	— 3	— 1	— 1	73
15	— 1	— 3	— 3	— 2	— 3	— 2	— 2	— 5	— 2	0	— 2	3	54
16	— 2	— 3	— 2	— 3	— 2	— 5	— 4	— 4	— 4	— 2	2	1	70
17	1	— 2	— 1	0	— 2	— 6	2	0	0	0	1	3	42
18	— 1	— 8	— 12	— 6	2	— 3	— 3	— 3	1	1	3	2	70
19	1	— 1	— 2	— 3	— 3	— 4	— 2	— 1	— 1	— 2	— 2	— 2	68
20	— 2	0	1	0	1	— 2	— 2	— 1	— 2	— 1	— 1	— 1	42
21	5	1	— 4	— 3	3	1	— 1	— 2	0	— 1	— 1	2	65
22	1	0	3	4	1	— 3	1	1	2	1	5	4	51
23	3	6	5	— 1	1	4	4	1	— 1	0	— 1	— 2	71
24	10	— 6	— 4	— 1	— 1	0	4	1	6	7	4	2	101
25	— 5	— 5	— 3	0	2	4	0	0	0	2	2	2	46
26	2	0	— 2	— 2	2	3	0	— 1	1	1	2	4	45
27	— 9	— 7	— 3	— 1	3	12	0	— 2	1	— 1	3	0	70
28	0	— 3	— 7	— 3	— 1	0	— 1	— 1	1	0	0	4	58
29	— 4	— 8	— 3	— 1	4	2	4	2	3	3	2	1	98
30	10	7	3	— 2	— 4	— 3	0	— 1	— 1	— 2	— 1	0	72
31	— 6	— 4	7	5	1	0	— 1	0	2	1	1	0	56
Hourly Amount.	122	124	127	76	67	89	57	68	63	42	65	68	2069

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0	2	4	— 1	0	4	1	— 10	— 11	— 3	— 2	1	—
2	— 3	— 1	— 2	— 1	1	2	0	2	3	0	4	5	—
3	— 2	3	— 3	1	— 2	— 1	0	— 1	1	4	6	6	—
4	0	— 1	— 1	— 2	— 3	— 3	— 2	— 3	2	1	1	1	—
5	— 5	0	— 1	0	— 4	— 4	6	— 3	— 3	3	6	7	—
6	5	6	8	11	14	10	4	6	11	10	2	— 12	—
7	— 3	0	11	10	13	9	9	1	— 1	— 9	— 15	— 16	—
8	17	7	13	14	17	9	9	— 9	— 1	— 26	— 4	— 1	—
9	— 1	1	0	1	8	6	— 10	0	— 6	— 5	— 6	1	—
10	1	— 2	— 4	— 3	— 2	— 4	— 4	— 4	— 4	— 2	3	6	—
11	0	— 5	4	— 3	— 1	— 1	— 1	— 6	— 2	— 9	— 3	6	—
12	1	— 1	6	4	6	6	8	4	— 7	0	1	2	—
13	5	6	4	0	— 2	— 4	— 5	— 4	1	1	2	3	—
14	— 5	3	5	8	0	0	— 3	4	3	— 8	— 1	3	—
15	0	— 3	— 6	— 4	— 8	— 9	— 10	— 8	2	4	10	10	—
16	— 7	— 7	— 2	6	5	— 1	2	7	5	4	— 5	— 11	—
17	6	2	— 4	— 5	— 2	— 6	— 8	— 1	2	4	4	1	—
18	3	1	1	1	— 2	— 1	— 2	— 1	— 7	— 2	7	9	—
19	— 5	10	— 7	— 3	— 1	3	5	10	7	3	1	— 12	—
20	2	3	3	— 5	1	6	4	5	2	2	— 10	— 5	—
21	— 2	— 5	— 7	— 7	— 7	— 6	2	4	— 5	1	— 1	0	—
22	— 3	— 2	— 4	— 1	— 3	— 2	2	4	4	4	— 1	— 3	—
23	2	1	— 1	— 2	— 1	1	— 1	2	0	4	— 2	0	—
24	— 6	— 4	— 2	— 1	— 3	1	— 1	4	2	— 1	— 2	— 2	—
25	— 5	— 5	— 4	— 4	— 3	— 2	0	— 2	— 1	2	1	4	—
26	— 2	— 4	— 6	— 6	— 5	— 2	3	1	1	1	— 3	— 2	—
27	1	— 2	— 4	— 3	— 6	— 4	0	1	0	— 2	— 4	1	—
28	— 1	— 3	— 1	0	— 3	— 2	5	6	7	7	0	0	—
29	— 3	— 1	— 2	— 2	0	2	1	— 4	— 2	1	7	5	—
30	5	5	4	4	3	1	— 1	6	7	10	5	— 2	—
31	— 3	— 4	— 6	— 8	— 10	— 8	— 7	— 4	— 3	2	4	1	—
Hourly Amount.	104	100	130	121	136	120	116	127	113	135	123	138	—

JULY.

Mean Batavia Time	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	3	4	8	5	2	1	— 1	— 7	— 7	— 11	— 10	— 9	107
2	2	2	3	— 1	— 2	3	1	2	4	1	— 6	— 6	57
3	0	— 4	— 10	— 5	— 2	1	0	1	— 2	— 2	2	2	61
4	1	5	8	12	9	4	0	0	— 2	— 8	— 9	— 7	85
5	— 2	— 7	— 12	3	10	7	6	3	5	2	0	— 1	100
6	— 26	— 29	— 23	— 4	2	5	7	8	9	4	4	— 3	223
7	— 8	0	1	— 4	— 17	— 45	— 13	— 22	— 30	16	1	— 7	261
8	34	2	11	9	7	2	1	1	— 11	— 9	0	1	215
9	3	8	6	2	— 1	— 4	— 1	3	2	— 4	— 4	— 5	88
10	14	8	8	— 3	7	— 6	— 10	3	6	0	10	6	120
11	9	11	2	— 1	4	— 2	— 4	— 16	— 1	— 3	14	5	113
12	— 2	— 5	— 1	— 13	— 23	— 13	1	— 3	3	5	8	6	129
13	0	5	2	— 3	1	6	1	— 7	— 7	— 3	— 2	0	74
14	1	— 16	— 11	— 16	— 7	3	7	6	7	5	4	3	129
15	5	9	8	4	12	9	7	10	6	4	2	— 13	163
16	— 9	— 5	— 5	— 4	— 1	5	3	2	— 1	1	— 1	2	101
17	— 2	— 3	— 4	1	4	4	— 15	— 5	0	2	4	5	91
18	10	6	0	— 5	— 2	5	2	5	— 2	— 4	— 2	— 2	82
19	— 9	— 6	— 5	2	3	5	— 1	— 5	— 1	0	— 2	1	107
20	— 2	8	2	— 4	— 5	2	3	— 4	9	4	— 11	19	121
21	— 4	4	0	0	— 4	5	7	8	5	— 4	— 3	— 2	93
22	— 7	— 6	— 7	— 3	— 5	2	4	4	3	1	5	3	83
23	3	3	2	6	5	5	— 1	— 1	— 6	0	— 1	0	50
24	— 1	1	6	5	3	5	— 1	— 1	— 4	0	— 2	— 2	60
25	1	6	12	1	0	7	5	3	— 1	0	2	0	71
26	— 3	— 1	— 8	— 4	— 4	0	2	4	5	2	1	2	72
27	3	7	7	8	0	— 13	— 1	5	2	3	— 2	1	80
28	— 6	— 5	— 3	3	3	1	— 3	0	3	1	2	1	66
29	— 1	— 2	— 4	— 1	— 3	— 2	— 5	— 4	— 1	0	2	6	61
30	— 8	— 10	— 8	— 1	— 1	0	— 1	2	3	0	— 1	0	88
31	5	13	14	12	1	2	1	3	0	— 2	— 3	— 4	120
Hourly Amount.	184	201	201	145	150	171	115	148	148	101	120	124	3271

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	— 3	— 5	— 5	— 2	— 2	— 6	— 3	4	11	4	5	6	—
	2	0	— 2	— 1	0	0	2	2	— 1	— 4	— 3	— 3	— 4	—
	3	— 1	— 3	1	0	0	3	2	5	6	4	1	— 6	—
	4	— 10	— 10	— 10	— 7	— 3	— 1	— 4	— 1	— 1	1	3	4	—
	5	10	9	9	9	10	12	11	5	3	— 4	— 6	— 11	—
	6	— 5	— 6	— 7	— 8	— 9	— 9	— 5	1	— 3	2	2	14	—
	7	2	1	— 9	— 5	— 7	— 6	— 7	1	4	5	8	9	—
	8	— 10	— 4	— 8	— 11	— 10	— 8	— 9	— 3	5	18	11	— 2	—
	9	— 1	0	2	3	— 1	2	9	— 1	— 4	— 6	— 4	— 5	—
	10	0	0	1	0	— 3	— 3	— 4	4	4	— 2	— 1	3	—
	11	3	6	4	1	— 2	— 2	— 3	1	— 7	0	1	— 1	—
	12	2	4	0	1	— 1	0	0	— 1	2	— 6	— 8	— 7	—
	13	2	4	3	4	2	4	2	— 2	— 5	— 6	— 8	— 9	—
	14	0	— 3	— 4	— 5	— 2	— 4	— 4	— 3	— 2	9	5	0	—
	15	1	3	4	4	4	5	1	— 4	— 4	— 4	— 2	— 3	—
	16	1	0	— 3	— 5	— 4	— 3	— 4	— 3	— 4	— 3	2	9	—
	17	— 3	1	4	7	4	7	10	6	2	2	— 4	— 6	—
	18	— 3	— 5	— 3	— 3	1	0	0	— 2	1	2	— 1	4	—
	19	0	— 8	3	2	2	0	— 2	— 4	— 6	— 9	— 1	10	—
	20	— 4	— 5	— 4	2	1	— 2	— 2	— 1	— 1	0	6	6	—
	21	4	6	6	8	7	8	8	— 10	— 3	0	— 3	1	—
	22	1	1	1	— 1	3	2	— 1	— 5	— 1	2	3	2	—
	23	1	0	— 2	— 2	— 2	— 4	— 2	7	7	1	0	— 2	—
	24	1	— 2	— 4	— 7	— 6	— 10	— 5	4	10	12	13	9	—
	25	3	0	— 1	— 1	— 1	— 4	— 6	1	4	2	1	— 5	—
	26	5	5	5	4	3	0	1	4	0	— 7	— 6	— 4	—
	27	4	5	5	4	3	1	— 2	— 3	— 1	1	2	4	—
	28	1	1	1	0	0	— 2	— 6	— 10	— 5	— 2	2	7	—
	29	1	1	2	2	2	3	3	0	— 4	— 2	— 5	— 6	—
	30	— 4	— 1	2	2	3	5	8	3	— 7	— 17	— 12	— 4	—
	31	1	4	7	9	10	9	12	5	5	4	— 3	— 9	—
Hourly Amount.		87	105	121	119	108	127	138	105	126	140	132	172	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JULY.	1	0	3	3	2	2	4	3	2	2	3	1	1	82
	2	— 4	0	0	5	3	— 1	0	1	— 2	— 1	— 1	0	40
	3	0	3	7	6	3	0	4	4	7	6	4	5	81
	4	1	— 10	— 12	— 9	— 4	— 2	— 2	— 2	— 2	0	— 3	— 6	108
	5	— 7	4	9	— 3	— 8	— 5	— 4	2	1	1	— 1	— 4	148
	6	11	11	12	6	0	— 3	— 2	— 3	— 2	0	1	4	126
	7	5	5	— 2	— 2	8	22	0	1	13	— 13	4	6	145
	8	— 7	— 2	— 1	3	— 3	— 4	— 4	— 2	5	7	0	0	137
	9	— 3	— 4	— 7	— 7	— 2	1	1	— 2	— 1	3	3	3	75
	10	— 3	— 10	— 9	0	— 2	4	6	0	— 1	0	— 2	3	65
	11	0	— 3	2	7	2	1	1	4	1	— 1	— 10	— 4	67
	12	— 2	6	0	10	11	2	— 2	— 2	— 6	— 4	— 3	— 1	81
	13	— 1	1	4	5	0	— 4	— 3	1	1	0	0	— 1	72
	14	— 1	13	6	9	6	— 1	— 5	— 3	— 5	— 1	— 2	— 2	95
	15	— 2	— 1	0	— 5	— 8	— 2	— 2	— 2	— 1	— 2	— 1	6	71
	16	14	4	3	2	3	1	0	— 2	— 4	— 4	— 4	— 4	86
	17	— 11	— 7	— 1	— 1	4	1	9	5	0	— 2	— 3	— 3	103
	18	3	5	5	— 3	— 1	— 1	1	— 1	0	1	— 1	— 2	49
	19	8	2	3	5	0	— 1	1	2	0	— 1	— 1	— 4	75
	20	3	— 6	— 9	— 1	2	— 1	1	3	— 3	2	10	— 4	79
	21	0	— 3	0	— 1	— 3	— 5	— 4	— 4	— 2	1	1	3	91
	22	1	— 1	— 10	— 8	— 3	— 2	— 3	2	2	3	2	0	60
	23	— 3	— 7	— 3	— 2	— 1	0	2	1	2	— 1	1	1	54
	24	1	— 5	3	— 1	— 1	— 4	— 2	— 2	0	0	2	2	106
	25	— 2	0	— 1	0	— 2	— 3	— 1	— 1	2	2	2	4	49
	26	— 2	— 2	0	— 5	— 4	— 4	0	— 1	0	2	2	2	68
	27	— 2	— 4	— 6	— 4	— 2	7	— 1	— 1	— 1	1	2	0	66
	28	10	9	10	3	0	— 1	0	— 2	— 3	— 2	— 4	— 2	83
	29	— 3	2	4	3	0	2	3	5	— 1	1	0	— 5	60
	30	6	9	11	6	— 1	— 2	— 1	— 1	— 4	— 2	— 1	— 2	114
	31	— 11	— 12	— 18	— 17	— 1	0	1	2	1	4	1	2	148
Hourly Amount.		127	154	161	141	90	91	69	66	75	71	73	86	2684

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

AUGUST.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	3	2	4	2	— 2	3	4	1	0	3	1	—
2	— 1	— 1	— 6	1	— 14	— 7	0	2	2	11	— 6	12	—
3	— 5	— 7	— 10	3	— 7	— 5	— 9	— 6	— 4	— 3	8	14	—
4	3	0	9	1	5	3	0	0	— 2	— 9	— 8	— 5	—
5	— 1	— 3	3	— 2	— 4	— 2	0	1	3	1	2	2	—
6	— 4	— 3	— 4	— 6	— 4	0	1	6	3	— 2	— 4	7	—
7	— 4	— 5	— 3	— 4	1	2	— 1	7	10	8	2	— 4	—
8	— 2	2	— 4	— 5	0	— 3	— 2	4	1	2	4	5	—
9	— 1	— 1	— 2	— 3	0	— 2	2	4	2	— 1	— 3	— 4	—
10	— 3	— 3	— 2	— 2	1	— 1	3	5	8	7	5	— 1	—
11	0	— 1	0	— 2	1	— 1	— 4	1	0	0	— 2	1	—
12	0	1	2	3	1	0	1	1	3	3	— 3	— 6	—
13	1	0	1	0	2	2	1	— 4	— 6	— 6	— 3	— 2	—
14	4	2	3	4	2	5	4	3	0	1	1	3	—
15	0	2	1	3	2	3	3	3	6	2	4	— 2	—
16	5	6	8	3	9	5	— 1	— 8	— 5	— 5	— 4	— 11	—
17	1	0	1	0	2	— 2	0	— 8	— 9	— 7	— 4	2	—
18	3	3	2	3	2	— 1	— 3	— 2	1	— 6	— 7	— 5	—
19	— 2	3	0	0	— 1	3	4	3	2	— 1	— 2	— 2	—
20	1	2	1	3	1	— 2	1	5	7	4	3	1	—
21	— 2	— 2	— 4	— 3	0	1	7	10	8	7	8	6	—
22	3	3	1	3	1	— 1	— 2	— 4	1	2	— 2	— 6	—
23	— 1	— 1	— 1	— 1	0	1	5	8	5	3	— 4	— 11	—
24	2	0	— 1	— 1	— 3	0	0	— 6	— 7	— 4	— 2	— 2	—
25	— 1	— 1	— 2	— 2	— 1	2	2	3	— 2	— 5	1	— 4	—
26	2	— 1	— 2	— 2	— 5	— 6	— 4	1	1	3	2	5	—
27	1	— 3	1	— 4	— 3	0	4	6	1	0	2	2	—
28	5	4	3	3	1	0	— 2	— 6	— 3	— 4	— 2	— 2	—
29	— 1	— 4	— 1	0	— 10	— 3	— 2	— 6	— 5	0	11	13	—
30	— 5	0	— 2	0	10	4	2	— 9	— 8	0	5	— 6	—
31	— 1	4	7	3	5	4	— 13	— 18	— 15	— 7	— 4	— 5	—
Hourly Amount.	67	71	89	74	100	73	86	154	131	114	121	152	—

AUGUST.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	4	— 2	— 2	— 6	— 3	— 6	0	4	— 4	— 2	0	— 1	61
2	13	17	13	— 3	0	— 2	— 1	— 4	— 3	— 3	— 2	0	124
3	2	13	12	6	2	— 8	— 2	3	— 3	— 12	— 3	0	147
4	— 7	2	— 1	— 4	— 2	1	4	2	7	3	3	2	83
5	— 2	— 9	— 9	1	0	5	4	2	4	2	2	— 2	66
6	11	8	7	— 3	— 2	— 1	— 7	2	3	1	1	— 4	94
7	— 8	— 6	— 7	— 4	2	1	— 2	— 2	1	4	2	1	91
8	12	12	1	— 5	— 2	— 2	— 5	— 4	— 4	— 2	— 1	— 1	85
9	— 2	— 1	— 1	4	4	3	0	2	1	1	1	— 1	46
10	— 10	— 10	— 2	0	— 2	— 1	2	4	1	1	0	— 1	75
11	2	2	2	3	3	1	— 2	— 2	— 1	— 1	— 2	0	34
12	— 6	— 4	3	2	3	— 2	— 1	2	0	2	2	2	53
13	2	2	— 3	— 3	— 1	— 5	— 3	— 2	— 2	0	2	0	53
14	1	0	— 2	— 5	— 5	1	0	— 5	— 6	— 3	— 3	— 4	67
15	— 1	— 1	— 1	1	— 4	— 3	— 1	— 6	— 4	— 2	— 1	2	58
16	— 5	0	— 2	— 4	— 3	2	3	7	3	3	4	0	106
17	6	11	9	1	— 1	0	— 3	— 2	— 1	— 1	0	0	71
18	— 2	2	5	4	— 1	3	0	1	1	0	2	1	60
19	— 8	— 11	— 7	— 5	— 5	3	2	2	1	2	2	3	74
20	— 2	— 6	— 9	4	2	0	— 2	— 3	— 3	— 1	— 2	— 2	67
21	1	— 9	— 11	— 8	— 4	2	0	— 1	— 1	0	2	1	98
22	— 3	— 1	2	9	7	— 2	— 1	— 1	— 1	2	0	— 1	59
23	— 10	— 10	— 4	— 3	— 2	2	4	5	3	5	4	4	97
24	— 1	— 4	2	8	8	4	5	2	2	2	1	1	68
25	— 3	— 4	— 1	0	1	— 1	— 1	0	2	2	2	3	46
26	6	4	3	4	4	1	— 3	— 4	— 2	— 5	— 1	— 3	74
27	0	1	1	— 1	— 1	— 1	— 3	— 2	— 2	— 1	1	2	43
28	— 2	— 8	— 1	2	4	4	3	1	2	1	0	— 2	65
29	23	7	0	— 7	— 7	5	7	— 3	4	— 2	— 11	0	132
30	— 12	— 1	1	6	7	— 4	— 1	3	5	1	— 2	4	98
31	— 1	4	5	6	— 3	2	3	7	3	3	4	0	127
Hourly Amount.	168	172	129	122	95	78	75	90	80	70	63	48	2422

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

AUGUST.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 4	— 4	— 1	— 4	— 5	— 1	0	— 2	2	5	8	7	—
2	— 2	15	24	30	38	15	20	— 37	— 43	— 55	— 44	— 35	—
3	6	20	11	2	9	12	8	2	— 2	9	6	— 7	—
4	— 18	— 2	— 6	— 7	2	5	3	6	12	5	— 4	— 7	—
5	1	2	— 2	4	3	— 2	0	5	— 13	— 2	— 14	— 11	—
6	0	1	0	0	6	0	4	— 2	4	10	7	— 4	—
7	— 3	— 6	— 2	— 1	— 3	— 5	— 3	— 8	2	3	9	13	—
8	6	4	6	5	1	2	0	4	0	— 4	— 4	1	—
9	0	— 2	1	— 1	— 6	— 3	— 1	0	— 2	— 3	2	6	—
10	— 1	0	— 1	— 7	— 7	— 8	— 8	— 6	— 3	0	2	5	—
11	— 2	— 3	— 5	— 4	0	— 2	— 2	3	6	1	3	3	—
12	1	— 1	— 3	— 5	— 3	— 3	— 2	— 3	0	2	7	6	—
13	— 4	— 9	— 8	— 7	— 6	— 2	— 4	— 3	— 2	— 2	2	10	—
14	— 1	2	1	0	2	7	7	4	3	— 1	3	— 2	—
15	0	4	4	5	— 3	11	10	— 2	— 14	— 2	— 6	1	—
16	10	3	11	11	— 1	0	1	6	1	0	— 14	— 5	—
17	0	1	— 1	— 2	— 2	— 3	0	0	5	4	8	9	—
18	— 5	— 5	3	— 2	— 1	— 2	0	5	5	3	1	— 2	—
19	4	— 2	— 2	— 5	— 9	— 7	— 4	0	6	7	5	2	—
20	— 3	— 5	— 3	— 6	— 5	— 6	— 3	2	3	3	3	— 1	—
21	— 2	— 1	— 2	— 3	— 3	4	— 6	5	14	15	16	2	—
22	1	— 2	— 7	— 13	— 5	— 8	— 10	— 3	1	— 3	2	4	—
23	— 1	— 3	— 3	— 5	— 3	— 2	1	— 1	1	2	5	8	—
24	1	0	— 1	— 4	— 6	— 5	— 4	4	5	6	1	— 1	—
25	— 1	— 1	— 1	— 6	— 10	— 8	— 16	— 10	17	7	12	9	—
26	— 5	— 6	— 2	3	— 2	— 4	— 8	— 3	0	6	10	3	—
27	— 1	— 3	— 5	— 8	— 9	— 9	— 5	— 7	— 8	— 6	0	3	—
28	— 2	— 1	— 1	— 1	7	1	7	11	2	— 2	3	6	—
29	— 14	— 7	— 10	12	6	3	6	14	2	9	— 12	— 7	—
30	13	9	7	11	19	13	6	8	— 4	1	— 3	— 8	—
31	20	3	2	3	3	6	1	11	3	— 8	2	0	—
Hourly Amount.	132	127	136	177	185	159	150	177	185	186	218	188	—

AUGUST.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	6	10	13	13	13	8	12	— 10	4	11	23	— 7	173
2	— 37	— 32	— 25	— 9	— 6	10	10	13	11	0	— 5	2	518
3	— 1	— 20	— 38	— 20	— 10	15	23	19	3	21	— 8	— 6	278
4	5	— 5	0	9	4	1	— 6	0	— 3	5	2	— 2	119
5	4	15	23	12	— 12	— 10	— 23	— 25	0	12	0	7	202
6	2	6	1	— 7	— 16	3	— 2	0	0	12	7	3	97
7	6	5	— 9	— 11	— 9	2	0	5	2	0	9	6	122
8	— 9	— 10	— 5	— 8	— 11	0	— 1	2	3	0	2	2	90
9	8	13	8	4	— 1	— 4	3	— 1	— 2	— 4	— 3	— 3	81
10	12	7	9	8	6	4	— 2	— 3	— 3	— 5	— 2	2	111
11	3	2	1	1	1	2	— 2	— 2	— 3	— 2	— 3	2	58
12	7	7	7	6	4	3	1	— 3	— 4	— 6	— 4	— 5	93
13	8	10	4	4	5	6	1	4	3	— 3	— 6	— 5	118
14	1	0	2	— 8	— 10	— 2	— 2	3	5	8	— 17	— 6	97
15	6	7	6	— 10	— 15	— 24	— 12	1	11	1	15	5	175
16	3	— 3	— 11	— 11	— 5	2	3	— 5	— 6	— 8	— 3	1	124
17	10	4	— 1	0	7	1	2	2	— 7	— 2	— 3	— 2	76
18	1	— 1	— 3	— 1	0	0	2	— 2	— 3	— 6	— 4	— 2	59
19	3	2	3	2	3	4	1	1	1	— 6	— 4	— 2	85
20	0	2	5	6	4	— 2	— 3	— 3	0	— 4	— 1	2	75
21	— 5	— 3	4	5	2	— 1	— 2	1	2	1	2	5	106
22	2	10	18	14	6	1	— 5	— 5	— 7	— 10	— 6	— 2	145
23	8	4	— 1	— 3	0	— 1	— 1	1	1	— 2	2	1	60
24	— 2	— 5	— 3	3	6	3	— 3	— 2	— 3	— 9	— 2	2	81
25	1	5	14	13	14	4	0	— 1	— 19	— 8	— 3	— 1	181
26	6	7	11	8	8	4	2	3	2	— 1	— 2	— 3	109
27	9	9	8	4	3	1	— 1	— 3	— 4	— 7	— 4	— 4	121
28	2	— 3	— 4	0	11	7	8	13	18	— 7	— 11	— 22	150
29	— 40	— 16	2	9	14	— 34	— 23	— 16	— 6	0	17	14	293
30	— 8	— 22	— 15	— 6	— 12	— 4	11	7	— 1	9	— 4	— 2	203
31	15	— 7	— 22	— 29	— 7	— 2	2	1	4	9	7	11	178
Hourly Amount.	230	252	276	244	225	165	169	157	141	179	181	139	4378

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	--
AUGUST.	1	1	0	0	1	1	0	— 1	— 3	— 3	— 2	— 7	— 2	—
	2	4	— 4	— 7	— 8	— 12	2	— 6	19	22	26	21	5	—
	3	— 3	— 8	— 2	— 1	— 3	— 6	— 5	— 2	1	— 2	— 4	1	—
	4	8	— 4	— 2	— 2	— 6	— 6	— 2	7	8	13	13	10	—
	5	4	2	1	0	2	4	2	— 4	6	— 2	— 3	1	—
	6	2	5	6	7	4	7	10	— 5	— 4	0	— 6	— 12	—
	7	4	5	2	1	2	1	— 3	— 3	— 8	— 4	— 4	— 5	—
	8	4	5	5	6	8	8	10	3	— 6	— 13	— 14	— 18	—
	9	1	2	0	2	2	— 1	— 6	— 2	4	10	6	— 5	—
	10	3	3	4	5	5	6	3	— 1	— 2	— 5	— 7	— 4	—
	11	4	4	5	5	2	3	2	— 5	— 12	— 12	— 11	— 6	—
	12	— 5	— 6	— 4	— 4	— 6	— 6	— 7	10	8	8	8	7	—
	13	5	6	6	5	5	2	3	— 1	— 8	— 14	— 14	— 11	—
	14	— 1	— 3	— 1	— 1	— 2	— 6	— 5	— 1	1	0	— 2	5	—
	15	— 3	— 6	— 4	— 5	— 1	— 6	— 6	— 2	3	2	7	7	—
	16	— 9	— 4	— 8	— 5	1	2	3	3	9	11	14	7	—
	17	— 3	— 3	— 2	— 1	0	— 1	2	6	2	1	— 1	— 2	—
	18	3	3	0	3	4	6	5	— 7	— 3	— 3	— 3	— 2	—
	19	— 4	— 3	— 3	— 1	1	— 2	— 6	— 2	2	2	0	9	—
	20	1	— 1	— 2	— 1	— 3	— 5	— 7	— 6	— 5	— 4	1	6	—
	21	— 3	— 3	— 3	— 4	— 4	— 6	— 1	— 6	— 4	— 2	2	12	—
	22	— 1	2	5	8	3	7	9	1	— 3	1	2	0	—
	23	— 5	— 5	— 6	— 8	— 9	— 11	— 13	0	2	10	16	22	—
	24	0	3	4	6	4	2	3	1	— 4	— 8	— 5	— 7	—
	25	2	1	2	3	5	3	10	9	— 5	— 1	— 1	— 6	—
	26	5	7	6	4	6	7	4	— 4	— 7	— 11	— 11	— 8	—
	27	3	3	3	4	5	3	2	5	— 1	— 10	— 11	— 6	—
	28	— 4	— 2	— 1	— 1	— 3	— 2	— 6	— 1	0	1	— 1	— 3	—
	29	6	4	5	— 8	— 1	— 1	— 3	— 9	— 5	— 8	3	— 5	—
	30	— 13	— 7	— 6	— 7	— 9	— 6	0	5	14	8	12	11	—
	31	— 6	2	2	3	0	0	4	— 4	— 2	4	0	1	—
Hourly Amount.		120	116	107	120	119	128	149	137	164	198	210	206	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
AUGUST.	1	1	2	0	0	— 1	2	— 2	10	0	— 5	— 10	3	57
	2	— 2	— 6	0	2	— 1	— 9	— 4	— 5	— 2	3	3	— 1	174
	3	0	9	14	7	1	— 10	— 12	— 7	2	— 5	9	5	119
	4	— 3	— 7	— 15	— 15	— 7	— 2	2	2	4	1	0	3	142
	5	— 6	— 8	— 10	— 4	7	4	9	13	2	1	— 1	— 2	98
	6	— 13	— 12	0	3	5	— 5	— 1	— 1	3	— 4	0	2	117
	7	2	0	7	0	— 1	— 2	— 2	— 6	— 1	3	1	3	70
	8	— 11	— 2	3	11	4	— 1	2	5	3	4	1	1	148
	9	— 5	— 5	— 3	— 6	— 4	1	— 2	— 1	0	3	4	4	79
	10	— 5	— 4	— 5	— 3	0	0	2	1	3	4	3	2	80
	11	— 4	2	6	4	2	2	1	0	0	— 2	— 5	— 5	104
	12	2	— 2	— 3	— 1	— 1	2	— 1	0	2	3	3	5	104
	13	— 2	4	9	4	0	— 3	— 1	— 1	0	— 1	— 2	— 1	108
	14	8	10	9	10	5	— 2	— 3	— 6	— 7	— 7	6	4	105
	15	6	6	6	11	9	12	2	— 7	— 11	— 8	— 13	— 7	150
	16	0	— 8	— 9	— 3	— 1	— 2	— 1	1	3	1	0	— 5	110
	17	— 4	— 5	— 2	— 2	— 1	3	2	2	6	2	3	3	59
	18	— 6	— 6	— 6	2	4	2	3	4	2	— 1	— 1	— 4	83
	19	8	0	— 2	— 2	— 2	0	2	2	3	3	1	0	60
	20	8	4	5	1	1	3	3	0	0	0	— 1	— 3	71
	21	13	13	9	— 1	— 2	0	— 2	— 2	— 2	— 2	— 3	— 2	101
	22	— 4	— 5	— 21	— 23	— 7	1	4	3	4	4	1	— 2	121
	23	23	25	7	4	— 3	— 8	— 6	— 6	— 5	— 5	— 7	— 3	209
	24	— 4	2	— 1	— 8	— 3	4	1	2	3	4	1	0	80
	25	— 8	— 9	— 5	— 6	— 6	0	3	5	— 10	9	6	5	120
	26	— 7	— 5	— 1	— 1	1	— 1	0	— 2	— 1	— 1	— 1	— 2	103
	27	— 1	3	9	12	8	4	2	— 1	— 2	0	— 4	— 4	106
	28	— 2	3	2	0	— 4	0	— 3	— 3	— 6	5	10	16	79
	29	10	7	7	8	2	16	11	5	— 1	— 5	— 7	— 11	148
	30	6	0	— 3	— 11	— 3	— 2	— 10	— 5	3	0	5	2	148
	31	1	— 7	— 6	2	0	3	4	3	4	0	1	0	59
Hourly Amount.		175	181	185	167	96	106	103	111	95	96	113	110	3312

EASTERLY DECLINATION. D.

DEVIATIONS. – UNITY = 0.'1.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER. 1	— 3	— 1	— 2	— 2	— 1	— 2	— 3	— 3	— 2	5	6	9	—
2	— 5	— 5	— 6	— 6	0	3	3	0	1	— 2	5	5	—
3	3	— 2	— 4	1	2	1	6	2	0	4	1	— 2	—
4	0	— 1	— 1	2	3	4	5	4	7	3	— 7	— 10	—
5	1	2	3	6	3	— 1	6	10	6	5	— 5	— 13	—
6	— 1	2	1	1	1	0	7	3	2	3	4	1	—
7	3	3	2	1	0	— 2	5	3	— 1	— 5	— 7	— 9	—
8	0	3	3	3	3	1	6	3	— 5	— 7	0	2	—
9	6	7	5	7	3	1	0	— 4	— 2	— 5	— 6	— 2	—
10	5	6	4	3	3	4	10	17	14	5	— 7	— 13	—
11	3	1	0	6	4	2	7	11	6	0	— 1	— 5	—
12	3	4	3	7	6	8	11	19	9	2	— 6	— 9	—
13	1	2	2	4	3	6	0	1	0	1	4	2	—
14	0	1	3	0	4	1	— 2	— 5	— 5	— 5	— 1	2	—
15	— 3	— 2	0	— 3	0	2	1	2	5	3	3	6	—
16	— 6	— 4	— 1	— 1	3	1	2	1	9	3	1	— 1	—
17	0	2	1	4	1	2	2	0	— 2	0	— 6	— 7	—
18	2	2	4	3	4	1	— 1	0	— 3	— 7	— 11	— 7	—
19	4	2	1	0	— 3	— 2	— 2	— 1	3	0	— 5	— 9	—
20	6	5	3	2	— 2	— 4	— 8	— 6	— 6	— 4	— 7	— 5	—
21	6	4	4	2	— 2	— 2	— 5	— 1	— 3	— 6	— 8	— 8	—
22	— 1	— 2	— 3	— 3	— 4	2	5	0	— 1	1	— 6	4	—
23	3	1	0	1	— 1	1	— 6	— 11	— 8	— 3	5	2	—
24	2	3	0	— 3	— 5	4	5	— 7	— 9	— 7	— 3	2	—
25	— 2	1	0	0	— 3	— 9	— 17	— 17	— 7	0	5	4	—
26	— 19	— 24	— 25	— 26	— 7	6	9	27	30	25	31	16	—
27	— 4	— 1	3	1	— 4	— 9	— 12	— 9	— 7	— 1	3	0	—
28	— 2	— 4	— 3	— 5	— 6	— 1	— 5	— 9	— 5	3	4	14	—
29	0	3	2	0	— 3	— 10	— 13	— 13	— 4	— 2	3	16	—
30	1	0	— 4	— 5	— 7	— 13	— 26	— 13	— 9	0	11	18	—
													—
Hourly Amount.	95	100	93	108	91	105	190	202	171	117	172	203	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
SEPTEMBER. 1	8	— 3	— 4	4	7	8	5	2	— 4	— 5	— 6	— 4	99
2	3	1	3	0	3	0	— 1	1	2	— 5	0	— 2	62
3	— 10	— 8	— 3	1	2	2	2	4	— 4	0	1	0	65
4	— 10	— 9	— 1	3	2	0	2	2	2	1	0	0	79
5	— 18	— 10	— 7	— 2	— 1	1	3	1	2	3	1	0	110
6	— 12	— 15	— 4	2	2	0	1	2	4	3	3	2	76
7	— 10	— 7	7	6	— 1	1	0	0	2	1	2	0	78
8	— 5	— 15	— 9	— 1	0	— 1	— 1	0	2	2	4	5	81
9	— 1	— 4	— 7	— 3	0	1	2	— 1	1	1	1	3	73
10	— 23	— 24	— 14	— 3	— 1	— 3	— 3	— 5	3	6	4	3	180
11	— 10	— 11	— 9	— 2	1	0	— 4	— 1	— 4	— 2	1	1	92
12	— 12	— 18	— 10	— 6	— 3	0	— 2	— 1	2	2	1	0	144
13	— 2	— 1	0	1	3	— 5	— 5	— 3	— 1	— 2	0	0	49
14	5	1	1	6	2	1	— 2	— 4	— 2	— 4	— 2	— 2	61
15	11	7	8	5	— 2	— 5	— 3	— 5	— 4	— 3	— 15	— 13	111
16	1	6	7	6	— 2	— 2	1	— 1	— 5	— 2	— 1	— 1	68
17	— 4	6	13	4	— 4	— 3	2	— 1	0	0	2	3	69
18	— 7	— 3	— 2	— 4	— 5	— 1	2	5	7	5	4	4	94
19	— 4	5	8	3	— 2	— 2	— 1	2	5	6	3	5	78
20	— 9	— 6	— 1	2	0	4	5	4	4	5	4	6	108
21	— 5	— 6	— 6	— 3	5	9	7	6	3	2	2	1	106
22	2	5	— 4	— 7	— 1	3	1	1	2	0	2	0	60
23	0	1	7	1	— 1	1	— 1	0	2	0	1	5	62
24	12	14	7	2	— 1	— 3	— 1	3	3	0	3	1	100
25	19	16	6	7	0	2	— 2	— 7	— 6	— 6	— 7	— 10	153
26	28	18	5	— 12	— 9	— 5	— 10	— 2	0	0	— 7	— 12	353
27	— 3	9	2	1	7	0	6	7	2	— 2	— 1	— 1	95
28	13	16	3	— 1	— 6	— 7	— 2	— 4	0	0	2	— 1	116
29	24	16	— 1	— 8	0	5	5	1	— 6	5	0	4	144
30	21	18	8	— 1	3	2	— 5	— 3	— 2	— 4	0	2	176
Hourly Amount.	292	279	167	107	76	77	87	79	86	74	80	91	3142

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER. 1	19	20	13	9	11	10	12	1	3	— 20	— 6	— 15	—
2	3	— 2	3	3	0	0	0	0	3	13	4	— 4	—
3	— 8	— 1	6	— 10	— 8	— 1	6	7	9	— 1	— 2	— 8	—
4	— 3	— 1	— 1	— 1	0	0	4	8	8	11	3	— 6	—
5	— 1	— 5	— 9	— 11	— 7	— 7	— 1	6	8	1	0	0	—
6	— 3	— 5	— 3	— 4	— 6	— 1	1	6	9	7	0	— 1	—
7	— 3	— 6	— 9	— 7	— 3	— 5	— 3	— 2	— 1	5	7	3	—
8	— 4	— 8	— 9	— 10	— 9	— 9	— 4	— 3	0	3	1	3	—
9	— 9	— 11	— 16	— 13	— 13	— 14	— 11	— 2	— 4	1	2	— 1	—
10	— 7	— 7	— 5	— 2	— 3	7	1	— 1	1	1	4	24	—
11	— 6	3	4	— 7	— 3	— 1	2	1	4	5	5	4	..
12	7	— 4	— 3	— 3	1	2	— 2	— 2	8	7	11	0	..
13	1	— 3	3	— 2	0	0	0	0	6	5	— 1	— 3	-
14	— 2	1	— 2	— 3	— 5	— 4	0	1	— 1	— 2	6	4	—
15	5	6	— 4	4	— 1	0	8	11	2	12	5	6	-
16	— 7	— 8	— 9	— 2	1	2	6	6	— 1	3	— 5	— 17	.
17	4	2	5	3	6	5	8	4	7	3	— 3	— 2	—
18	— 2	— 2	5	1	4	3	2	3	3	3	5	3	—
19	— 2	— 3	— 4	— 5	— 3	— 6	— 2	— 1	2	9	5	4	—
20	— 6	— 6	— 6	— 5	— 3	— 7	— 7	— 5	— 3	— 2	4	3	—
21	1	— 1	0	— 1	0	— 2	— 3	0	5	6	4	1	—
22	— 1	— 4	— 1	— 4	— 2	— 2	1	9	9	4	14	— 1	—
23	0	0	— 5	— 6	— 3	— 5	— 3	1	— 2	2	4	5	—
24	7	7	5	28	7	2	— 2	— 13	— 8	— 4	— 4	1	—
25	0	— 4	— 6	— 7	— 1	— 1	0	1	— 3	— 3	3	11	—
26	0	1	1	33	11	12	— 6	— 21	— 47	— 43	— 42	— 6	—
27	13	19	14	7	8	5	0	— 7	— 8	— 12	— 5	9	—
28	5	5	28	10	22	10	8	0	— 11	— 14	— 18	— 15	—
29	5	3	7	2	1	— 2	— 9	— 6	— 1	4	9	9	—
30	4	11	2	3	1	2	0	— 2	7	1	— 6	— 7	—
Hourly Amount.	138	159	188	206	143	127	112	130	184	207	188	176	--

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
SEPTEMBER. 1	— 21	— 4	6	— 6	— 19	— 11	— 20	— 10	2	— 2	16	3	259
2	9	7	0	5	4	2	14	— 5	— 8	6	— 14	— 8	117
3	— 1	8	7	1	3	— 3	— 6	— 4	5	— 1	0	2	108
4	— 15	— 2	1	1	— 2	— 1	3	2	— 1	— 3	— 6	— 3	86
5	0	10	19	3	0	3	3	1	0	— 3	— 3	— 2	103
6	2	0	3	1	3	0	2	0	— 2	— 2	— 2	— 5	68
7	5	3	9	7	5	2	2	2	— 2	— 1	— 4	— 2	98
8	12	11	10	15	14	8	8	5	3	1	— 6	— 11	167
9	7	16	21	20	21	13	9	— 2	— 13	— 12	— 2	— 10	243
10	— 6	9	4	— 3	— 14	— 12	— 7	22	— 3	— 3	— 6	— 4	156
11	0	0	0	— 1	— 5	— 2	4	— 4	12	0	— 10	9	92
12	— 12	— 13	— 13	— 4	1	4	4	4	1	1	— 3	1	111
13	— 4	— 5	— 7	— 1	— 2	— 4	— 1	— 4	— 5	— 5	— 2	— 3	67
14	3	6	0	— 1	4	5	5	6	— 2	— 8	— 9	— 2	82
15	— 1	— 8	— 18	— 8	3	2	1	5	0	— 1	24	8	148
16	— 9	— 10	3	3	3	— 3	— 18	— 13	— 4	— 4	0	6	143
17	— 3	2	— 2	— 8	— 6	— 2	— 2	— 1	— 2	0	0	— 3	83
18	4	1	2	— 7	— 3	0	2	0	1	0	— 5	— 2	63
19	7	9	12	9	8	9	8	2	— 3	— 8	— 7	— 11	139
20	3	2	1	— 1	0	3	5	3	— 1	— 2	— 2	— 2	82
21	1	— 4	— 2	2	0	1	— 2	2	3	5	3	— 3	52
22	— 4	— 22	— 33	— 5	1	2	2	2	2	4	2	5	136
23	10	4	2	5	6	6	3	— 2	— 5	— 3	2	— 4	88
24	— 6	— 24	— 18	— 8	1	1	— 4	— 11	— 14	4	— 10	10	199
25	25	26	16	2	7	4	15	27	29	29	32	9	261
26	— 12	— 27	— 16	— 28	— 14	— 12	— 2	— 16	3	— 10	5	16	384
27	10	8	19	19	— 2	4	— 15	— 27	— 11	3	— 2	4	231
28	— 4	— 12	— 15	— 13	4	— 12	— 6	3	— 5	7	8	9	244
29	4	6	3	3	— 8	1	— 8	5	9	— 15	— 7	— 8	135
30	0	4	— 6	— 7	— 16	— 12	— 6	2	4	15	0	0	118
Hourly Amount.	200	263	268	197	179	144	187	192	[illegible]55	158	192	165	4258

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12′	
SEPTEMBER.	1	— 6	— 7	— 2	0	— 2	— 2	— 6	0	— 4	2	— 5	— 2	—
	2	— 4	— 4	— 8	— 7	— 5	— 7	— 2	4	10	6	10	6	—
	3	5	4	— 5	4	3	— 3	— 6	— 13	— 8	— 6	0	9	—
	4	1	1	2	0	1	0	— 1	2	0	— 7	1	5	—
	5	5	6	7	3	2	1	— 6	— 16	— 17	— 9	— 1	10	—
	6	— 2	— 3	— 2	— 2	— 2	— 7	— 10	— 4	— 10	— 4	6	17	—
	7	2	4	5	4	2	0	— 5	— 5	— 3	— 4	— 5	2	—
	8	2	2	1	0	— 2	— 3	— 6	— 6	— 4	— 6	— 2	2	—
	9	3	3	5	4	2	5	— 1	— 13	— 12	— 10	— 3	2	—
	10	— 2	— 3	— 4	— 5	— 2	— 12	— 12	— 1	6	8	4	— 7	—
	11	— 4	— 11	— 9	— 4	— 7	— 10	— 10	3	4	14	21	19	—
	12	— 8	— 2	— 1	— 3	— 6	— 9	— 1	7	8	13	8	11	—
	13	1	2	— 1	2	1	2	2	— 2	— 5	— 7	— 5	0	—
	14	— 2	— 2	0	1	2	3	6	7	7	4	— 6	— 9	—
	15	— 9	— 10	— 4	— 6	— 2	— 6	— 4	— 4	8	4	1	4	—
	16	2	2	1	— 3	— 4	— 3	— 6	— 9	— 1	3	11	20	—
	17	— 2	0	0	0	0	1	0	— 6	— 12	— 8	5	0	—
	18	0	0	— 5	— 2	— 2	1	7	5	4	— 4	— 6	— 7	—
	19	— 1	— 1	0	1	— 1	2	1	6	7	5	3	— 2	—
	20	7	6	6	6	5	7	7	0	— 2	— 7	— 7	— 5	—
	21	2	1	2	1	1	2	5	— 2	— 6	— 3	— 3	2	—
	22	6	6	4	4	3	0	— 2	— 7	— 8	— 4	— 12	— 7	—
	23	1	1	3	3	2	0	3	7	7	0	— 12	— 10	—
	24	— 2	0	1	— 6	2	2	10	20	14	9	— 3	— 13	—
	25	1	2	2	3	0	4	3	3	0	— 4	— 5	— 14	—
	26	18	9	11	— 5	0	— 3	5	12	24	15	8	— 13	—
	27	— 3	— 5	0	7	8	14	8	1	— 2	0	— 3	— 5	—
	28	— 5	— 4	— 15	— 1	— 5	3	0	8	10	5	8	3	—
	29	— 1	1	0	2	5	11	13	0	— 5	— 5	— 6	— 18	—
	30	— 3	— 6	2	2	4	8	9	4	— 5	— 13	— 6	— 7	—
Hourly Amount.		110	108	108	91	83	131	157	177	213	189	176	231	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
SEPTEMBER.	1	7	— 1	— 1	7	10	7	11	2	0	— 2	— 9	— 4	99
	2	— 3	— 4	— 1	— 2	— 3	1	— 2	6	4	0	9	8	116
	3	5	2	— 3	0	— 1	3	5	2	0	1	2	— 2	92
	4	3	— 10	— 9	— 7	— 5	— 2	— 1	1	5	7	8	5	84
	5	8	— 2	— 2	7	4	— 3	— 3	— 2	0	1	0	0	115
	6	17	11	— 5	— 4	— 4	— 1	— 1	0	1	2	3	5	123
	7	2	— 4	— 16	— 1	2	1	1	0	2	2	3	2	77
	8	9	14	6	— 1	— 1	1	— 2	— 3	0	1	2	4	80
	9	7	9	0	— 2	— 3	— 1	2	4	7	4	— 2	0	104
	10	8	9	3	— 6	8	7	3	— 11	— 1	— 2	— 4	— 5	133
	11	16	11	3	— 4	— 5	— 4	— 7	— 4	— 12	— 5	— 1	— 9	197
	12	12	8	3	— 1	— 2	— 4	— 5	— 4	— 3	— 2	1	— 2	124
	13	1	1	1	2	1	4	3	3	2	0	— 3	— 3	54
	14	— 10	— 7	0	1	3	4	3	0	3	4	2	— 3	89
	15	9	8	12	7	1	— 2	— 2	— 5	— 3	— 2	— 13	— 4	130
	16	18	16	10	— 40	8	— 1	8	8	— 1	— 3	— 4	— 4	186
	17	— 3	— 10	2	11	7	1	2	1	1	0	— 2	0	74
	18	— 5	— 1	— 1	4	0	— 2	0	0	2	2	4	0	64
	19	— 9	— 19	— 15	— 5	— 2	— 4	— 3	1	6	9	8	11	122
	20	— 8	— 8	— 8	— 2	— 1	— 2	— 2	0	3	3	3	4	109
	21	3	1	— 5	— 10	— 10	— 5	1	— 2	0	1	2	6	76
	22	4	16	17	4	— 2	— 4	— 4	— 4	— 4	— 4	— 2	— 2	130
	23	— 7	— 5	1	5	— 1	— 2	— 1	0	1	0	— 3	0	75
	24	— 14	— 1	1	6	2	0	0	2	5	— 3	3	— 4	123
	25	— 20	— 16	— 3	5	1	0	— 6	— 12	— 13	— 10	— 7	9	143
	26	— 8	2	0	19	— 3	— 4	— 4	— 4	— 3	6	0	— 6	182
	27	— 13	— 15	— 15	— 11	— 3	8	9	16	6	— 3	— 1	— 2	158
	28	— 7	0	8	5	— 9	0	3	— 2	1	— 4	— 6	— 5	117
	29	— 13	— 2	10	7	3	— 3	— 1	— 3	— 3	9	3	2	126
	30	— 14	— 5	6	10	9	3	3	— 2	— 1	— 8	— 1	0	131
Hourly Amount.		263	218	167	196	114	84	98	104	93	100	141	111	3433

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

OCTOBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0	1	1	1	6	14	11	2	— 8	— 7	— 8	— 5	—
2	0	1	— 1	— 2	0	3	3	— 1	— 4	— 3	3	13	—
3	— 2	1	2	2	3	4	3	1	— 5	— 1	— 5	— 2	—
4	— 2	— 1	1	0	1	6	4	— 2	— 8	— 5	1	2	—
5	1	— 1	0	— 1	0	3	5	3	— 1	— 4	— 8	— 7	—
6	1	2	1	0	1	1	1	— 1	2	— 2	— 8	— 11	—
7	6	8	7	9	10	13	16	7	2	— 8	— 18	— 21	—
8	4	1	1	1	1	10	11	— 1	— 8	— 10	— 8	— 7	—
9	1	4	1	2	4	3	0	— 3	4	— 1	— 7	— 3	—
10	1	4	2	2	3	2	— 1	— 2	— 4	— 1	— 2	— 3	—
11	2	2	4	4	2	1	— 2	— 4	— 6	— 1	0	— 2	—
12	3	4	5	8	7	2	4	5	— 3	— 3	— 11	— 12	—
13	0	2	2	6	8	3	1	— 4	— 6	— 1	3	0	—
14	1	— 1	— 1	— 4	— 3	0	— 2	— 4	— 2	7	4	5	—
15	— 1	— 1	0	— 1	0	1	— 4	— 1	0	1	4	2	—
16	1	1	1	0	— 5	— 8	— 5	3	3	4	1	— 3	—
17	0	0	— 1	— 1	— 4	— 4	— 8	— 11	1	1	10	8	—
18	0	1	0	— 1	0	2	3	— 3	— 4	— 4	3	4	—
19	2	1	2	2	2	2	— 1	— 3	— 5	— 6	— 2	0	—
20	3	2	1	0	4	6	7	0	— 5	— 12	— 9	— 1	—
21	— 1	1	— 1	0	— 1	5	7	4	— 4	— 3	— 16	0	—
22	— 2	— 2	— 4	— 3	— 6	— 4	1	5	7	6	5	1	—
23	— 3	— 15	— 16	— 10	— 20	— 20	— 2	15	25	9	11	8	—
24	— 1	— 11	— 4	— 10	— 4	— 8	— 1	9	8	5	0	2	—
25	— 2	0	— 1	— 1	— 1	— 1	2	5	4	1	— 6	— 7	—
26	— 3	— 1	— 1	— 3	— 2	— 1	1	8	6	6	4	2	—
27	— 6	— 3	— 2	— 4	— 4	— 2	— 2	3	7	7	9	6	—
28	— 2	— 1	— 1	— 3	— 3	— 9	— 8	0	6	8	5	9	—
29	5	5	4	3	1	— 9	— 11	— 7	— 4	5	12	8	—
30	2	2	— 2	— 5	— 6	— 21	— 16	1	11	16	16	9	—
31	— 5	3	5	2	2	4	— 10	— 12	— 6	1	9	10	—
Hourly Amount.	63	83	75	91	114	171	153	130	169	149	208	173	—

OCTOBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 3	— 1	— 5	— 8	0	3	2	0	2	2	1	0	91
2	15	12	1	— 6	— 6	— 2	— 4	— 1	— 3	— 4	— 3	— 2	93
3	— 1	1	— 3	— 4	0	4	3	2	2	1	1	— 1	54
4	3	3	— 1	1	1	— 1	0	3	1	0	— 1	0	48
5	— 2	3	5	5	2	1	1	3	— 1	0	— 2	— 3	62
6	— 10	— 6	4	4	0	0	0	3	4	3	4	3	72
7	— 21	— 19	— 10	— 3	— 2	2	1	3	4	6	3	7	206
8	— 1	1	3	1	2	1	— 1	— 1	0	0	0	0	74
9	0	4	4	3	1	— 1	— 3	— 3	— 2	— 3	— 2	— 2	61
10	— 2	0	— 1	1	0	1	0	— 1	2	2	0	5	42
11	4	5	5	0	— 5	— 6	— 6	— 5	— 2	0	1	2	71
12	1	5	— 1	2	— 1	— 2	— 9	— 2	— 4	— 2	— 2	8	106
13	— 3	— 4	— 1	— 2	— 2	— 1	— 2	0	1	3	2	— 1	58
14	2	4	4	3	0	2	2	— 4	— 2	— 1	— 1	— 1	60
15	1	— 2	2	1	1	0	2	4	4	— 2	0	0	35
16	— 9	— 5	0	3	6	5	5	6	4	2	1	0	81
17	— 2	— 5	4	4	3	1	1	— 1	— 3	— 1	1	0	75
18	— 1	— 2	0	— 2	— 1	1	3	2	2	2	2	2	45
19	3	2	— 1	— 5	1	1	0	0	1	2	2	2	48
20	5	4	4	— 1	— 1	— 2	— 2	— 2	— 1	1	1	1	75
21	2	2	4	4	4	2	1	4	1	1	0	— 1	69
22	1	1	1	5	9	9	14	10	— 6	— 5	— 1	— 1	109
23	8	— 9	— 6	— 6	5	0	0	0	2	0	1	— 7	198
24	5	10	0	0	0	— 1	— 2	— 1	— 2	— 2	— 2	— 1	89
25	— 4	1	5	8	7	1	2	1	1	— 2	— 2	— 2	67
26	— 2	1	— 3	4	8	0	3	— 3	— 14	— 3	— 7	— 10	96
27	6	7	5	8	— 1	— 3	— 3	— 3	— 1	— 3	— 4	— 2	101
28	6	5	0	— 1	— 6	— 2	— 1	— 1	1	1	3	3	85
29	— 2	— 7	— 7	— 9	— 6	— 1	1	2	2	3	4	3	120
30	0	— 4	1	2	— 1	1	2	— 2	— 1	0	1	— 1	123
31	— 1	— 5	— 8	— 9	— 4	2	1	1	— 1	2	1	2	106
Hourly Amount.	126	140	99	115	86	59	77	74	77	59	56	73	2620

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER. 1	5	12	5	3	3	4	5	4	4	— 1	— 1	— 5	—
2	— 1	— 1	0	0	1	2	5	8	7	3	0	— 4	—
3	— 5	— 7	— 1	— 2	— 2	2	3	8	3	— 1	— 2	0	—
4	— 1	— 3	— 3	— 5	— 4	— 3	— 7	— 4	— 1	2	7	11	—
5	— 3	— 4	— 1	— 2	0	0	— 7	— 5	— 5	0	9	11	—
6	— 11	— 1	1	— 2	— 4	— 5	— 7	2	0	5	5	6	—
7	— 6	— 6	0	— 8	— 7	— 4	— 5	5	0	1	— 1	— 5	—
8	— 2	3	3	— 1	3	0	— 3	— 8	— 1	3	6	8	—
9	— 2	— 3	— 2	— 5	— 4	0	— 10	— 12	— 9	— 5	7	11	—
10	— 7	— 5	— 2	— 3	— 6	— 6	— 11	— 8	— 6	— 1	8	12	—
11	— 4	— 1	— 3	— 2	— 2	0	— 6	— 4	— 1	— 5	— 7	2	—
12	— 3	3	— 1	0	1	2	— 5	— 3	— 1	1	5	9	—
13	8	11	8	10	6	3	— 1	2	4	— 9	— 10	— 3	—
14	— 9	— 2	3	3	— 1	0	4	10	5	— 9	2	— 2	—
15	3	— 4	1	— 1	0	— 6	— 2	— 6	— 3	— 3	4	2	—
16	— 1	0	0	— 3	— 1	— 3	— 4	— 1	3	2	3	2	—
17	— 6	— 6	— 2	— 4	— 4	— 3	— 7	6	— 1	8	1	6	—
18	1	4	6	6	0	— 1	— 4	2	1	8	3	2	—
19	1	1	— 2	— 6	1	1	1	6	3	4	— 2	— 2	—
20	— 5	— 5	— 3	3	2	— 2	— 8	— 4	— 6	— 4	0	5	—
21	— 1	0	2	1	— 3	— 2	— 7	— 8	— 4	— 1	0	2	—
22	7	6	5	5	10	11	11	15	3	1	— 13	— 12	—
23	— 12	16	2	— 4	5	2	58	— 7	— 15	4	— 24	— 10	—
24	5	1	— 6	11	1	5	— 8	— 13	1	— 2	9	1	—
25	5	1	2	0	— 1	0	— 4	2	2	— 2	9	— 2	—
26	0	4	0	2	4	5	0	— 2	— 1	— 6	— 11	— 12	—
27	2	0	5	11	12	12	7	4	— 4	0	— 7	— 8	—
28	1	— 2	2	3	0	— 3	— 1	— 3	2	4	— 1	— 2	—
29	— 4	— 6	— 4	— 5	— 4	— 1	1	4	6	3	— 3	— 9	—
30	0	— 1	1	2	6	8	7	7	— 1	— 7	— 8	— 9	—
31	54	4	— 2	— 1	— 3	— 6	2	8	5	5	— 5	— 14	—
Hourly Amount.	175	123	78	114	101	102	211	181	108	110	173	189	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
OCTOBER. 1	— 1	— 7	— 3	— 1	— 12	— 2	— 1	6	1	— 2	— 5	— 4	97
2	— 5	0	— 1	— 2	— 5	— 2	7	1	— 3	— 7	— 1	— 4	70
3	1	2	2	2	— 2	0	— 1	1	3	— 1	— 2	— 2	55
4	6	0	— 1	6	1	1	0	3	1	— 3	— 4	— 2	79
5	5	3	2	3	0	0	— 1	2	2	— 2	0	— 6	73
6	7	5	7	7	1	5	7	8	6	2	2	— 1	107
7	— 2	— 2	— 8	— 3	— 5	— 1	1	4	6	0	3	1	84
8	3	0	3	2	2	2	3	1	— 5	— 4	— 7	3	76
9	11	7	2	1	— 3	— 2	5	5	2	3	— 1	— 3	115
10	10	5	1	7	5	7	10	11	— 1	0	4	— 5	141
11	2	3	0	2	3	4	7	8	5	1	— 2	— 5	79
12	— 5	7	1	— 17	— 15	— 17	— 2	— 14	— 3	5	6	8	134
13	1	3	2	4	0	4	0	5	— 4	— 19	— 14	0	131
14	1	3	— 3	— 12	— 9	— 4	— 2	4	7	6	6	7	114
15	5	3	— 1	0	— 2	1	2	1	— 2	— 7	— 4	0	63
16	3	2	2	0	— 5	— 2	— 5	4	6	1	1	4	58
17	— 9	2	0	— 3	— 3	— 3	0	1	2	— 1	1	3	82
18	— 2	— 9	— 9	— 3	— 1	3	3	2	1	— 3	1	— 5	80
19	— 6	3	3	5	— 4	— 3	— 4	— 2	5	2	2	0	69
20	7	7	8	4	— 1	— 1	— 2	0	— 1	— 2	— 2	0	82
21	12	7	0	3	— 3	2	1	2	5	5	4	8	83
22	— 27	— 15	— 9	1	— 14	— 25	— 35	— 40	— 16	43	28	33	385
23	— 2	— 24	— 10	— 18	32	— 3	— 2	14	— 7	13	0	19	303
24	5	— 11	— 4	— 3	— 5	— 6	— 3	— 3	— 2	5	5	5	120
25	— 3	0	0	2	1	2	— 1	— 7	— 3	10	3	2	64
26	2	20	23	28	22	22	— 27	— 39	— 22	— 30	— 10	2	294
27	— 11	— 11	0	— 9	— 8	— 8	9	— 2	3	17	9	1	160
28	— 7	— 5	0	8	6	1	1	1	— 2	5	3	— 1	64
29	— 7	0	5	6	1	— 3	3	1	3	1	2	3	85
30	3	0	— 12	— 10	— 3	2	— 12	— 15	— 4	2	— 1	— 17	138
31	— 14	— 7	— 6	0	2	2	3	4	4	2	4	6	163
Hourly Amount.	185	173	128	172	176	140	160	211	137	204	137	160	364

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

OCTOBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 6	— 9	— 5	— 4	— 3	— 6	2	10	8	5	4	— 1	—
2	1	1	0	0	— 1	— 1	— 3	— 6	— 5	— 3	— 6	— 4	—
3	2	0	— 2	— 2	— 1	— 2	— 4	— 6	— 5	— 4	— 3	— 2	—
4	3	3	3	2	1	— 1	0	— 3	— 6	— 11	— 8	— 10	—
5	0	— 3	— 4	— 6	— 6	— 10	— 5	1	1	— 4	— 2	— 2	—
6	4	0	— 2	— 3	— 2	— 4	— 1	0	— 3	— 2	— 1	— 1	—
7	3	3	— 2	3	3	— 3	5	10	7	3	0	1	—
8	3	1	1	2	— 1	— 1	8	12	7	2	4	1	—
9	1	3	3	5	5	4	9	5	2	8	6	— 3	—
10	5	3	0	0	0	1	4	2	— 1	— 4	— 4	— 4	—
11	1	1	1	1	2	2	3	— 1	— 4	— 2	1	0	—
12	— 1	— 3	1	2	2	4	3	3	0	3	— 1	— 9	—
13	— 4	— 5	— 2	— 2	1	4	6	4	— 1	3	— 2	— 5	—
14	4	2	— 3	— 3	1	— 3	— 1	— 6	— 7	— 1	— 5	— 4	—
15	— 2	— 1	— 3	— 3	— 1	1	2	4	2	— 2	— 3	3	—
16	— 2	— 3	— 1	1	— 1	3	— 1	— 2	0	2	— 1	— 2	—
17	4	2	1	0	0	3	5	— 6	— 3	— 4	— 4	— 3	—
18	— 3	— 4	— 5	— 6	— 1	4	10	9	11	6	0	— 3	—
19	1	— 2	— 2	— 1	— 3	— 1	4	8	9	5	5	— 2	—
20	7	7	8	3	5	9	16	4	9	9	— 2	— 10	—
21	1	0	— 1	— 1	2	2	6	12	9	0	0	— 4	—
22	— 2	— 2	0	— 1	— 3	— 4	— 7	— 5	— 2	— 3	0	4	—
23	19	5	11	18	— 1	— 11	— 40	— 11	11	— 1	10	10	—
24	2	6	5	0	0	— 2	— 2	— 1	— 9	— 4	— 7	— 5	—
25	— 2	0	1	1	1	1	0	— 3	— 3	6	5	1	—
26	0	— 2	— 1	— 2	— 3	— 5	— 7	— 3	0	4	6	9	—
27	— 11	— 7	— 9	— 12	— 11	— 10	— 8	2	15	14	11	10	—
28	1	1	1	0	3	7	4	4	0	— 4	— 5	0	—
29	— 1	0	0	1	3	7	4	— 1	— 9	— 14	— 6	11	—
30	1	2	3	4	5	6	— 8	— 26	— 21	— 8	3	14	—
31	— 30	— 4	0	1	1	5	— 2	— 6	— 6	— 7	1	7	—
Hourly Amount.	127	85	81	90	73	127	180	176	176	148	116	145	—

OCTOBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 6	— 2	5	0	4	— 2	— 1	— 3	0	2	3	3	94
2	— 1	2	10	12	7	0	— 3	0	2	4	0	0	72
3	0	4	5	1	0	1	2	1	0	4	3	4	58
4	0	10	8	1	2	2	1	— 1	— 1	1	0	— 2	80
5	3	6	8	7	8	4	2	— 1	0	2	— 1	1	87
6	— 3	— 4	— 6	— 1	3	2	— 2	— 2	— 3	0	1	2	52
7	— 3	— 6	— 7	— 7	— 5	— 4	— 2	— 2	— 2	0	2	3	86
8	— 3	— 6	— 9	— 5	— 3	— 4	— 4	— 2	1	2	4	0	86
9	— 9	— 11	— 8	— 7	— 2	1	— 3	— 4	— 3	— 2	0	2	106
10	— 1	3	8	2	— 1	— 3	— 4	— 4	0	— 1	— 1	2	58
11	0	2	3	4	1	0	— 2	— 4	— 6	— 2	0	0	43
12	— 5	— 9	0	13	11	8	0	2	— 3	— 6	— 8	— 7	104
13	— 3	— 5	— 1	— 5	1	— 1	2	— 2	3	11	6	— 2	81
14	3	6	9	11	6	3	2	1	— 4	— 4	— 6	— 5	100
15	2	0	— 3	— 2	1	0	— 1	0	4	6	2	— 1	49
16	— 3	— 3	— 4	— 2	— 1	1	3	0	— 1	1	4	4	46
17	4	0	— 1	4	1	1	0	— 1	— 2	— 1	— 3	— 3	56
18	— 4	— 2	— 4	— 7	— 6	— 5	— 4	— 2	— 1	1	1	2	101
19	— 2	— 6	— 4	— 4	0	— 1	— 2	1	— 4	— 2	0	5	74
20	— 13	— 6	— 6	— 8	— 5	— 5	— 4	— 4	— 3	0	2	0	145
21	— 10	— 5	— 3	— 5	— 2	— 1	— 2	— 1	— 3	0	0	— 2	72
22	3	2	1	4	4	2	28	31	14	— 12	— 12	— 8	154
23	6	12	1	8	— 17	— 1	— 4	— 9	— 2	— 8	— 1	— 8	225
24	0	8	4	0	5	6	2	2	— 1	— 2	— 6	— 3	82
25	— 3	— 7	— 10	— 6	1	1	3	6	4	— 3	1	2	71
26	1	— 7	— 10	— 11	— 8	2	24	27	20	12	— 1	— 6	171
27	6	— 2	— 8	— 3	3	5	— 5	— 2	— 1	— 8	— 2	3	168
28	1	— 2	— 2	— 5	— 2	1	0	— 1	1	— 1	— 1	— 1	48
29	12	10	5	2	0	1	— 3	— 1	— 1	0	0	0	92
30	8	8	11	6	1	0	6	9	1	— 1	2	5	159
31	10	6	6	2	— 3	— 5	— 2	0	— 1	1	1	0	107
Hourly Amount.	128	162	170	155	114	73	123	126	92	100	74	86	2927

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER	1	2	1	3	1	2	— 4	— 2	— 3	— 4	2	10	7	—
	2	1	6	0	4	3	0	— 2	— 1	— 4	— 5	— 1	6	—
	3	4	1	6	4	5	7	— 1	— 1	— 4	— 8	— 11	— 18	—
	4	1	1	3	1	5	14	8	— 3	— 14	— 13	— 6	— 5	—
	5	1	2	3	8	4	6	1	— 4	— 4	— 6	1	5	—
	6	2	1	1	2	2	— 3	— 3	— 4	— 5	— 1	5	5	—
	7	3	2	0	0	— 3	— 8	— 9	1	2	5	1	2	—
	8	2	4	2	2	2	2	3	— 2	— 3	— 6	— 5	— 3	—
	9	2	2	2	0	0	5	7	1	— 3	— 8	— 6	— 2	—
	10	— 1	0	1	— 1	2	9	8	5	— 4	— 12	— 1	3	—
	11	— 4	— 2	— 1	— 5	— 7	1	2	3	11	2	2	— 3	—
	12	— 5	— 6	— 6	— 6	— 2	2	2	1	4	3	4	2	—
	13	— 4	— 4	— 5	— 6	— 7	— 1	0	8	11	9	8	3	—
	14	1	— 3	— 5	— 2	— 5	— 9	— 12	— 6	7	17	10	9	—
	15	1	0	2	3	1	— 3	— 6	— 9	— 6	— 2	— 1	2	—
	16	3	1	3	3	2	— 1	— 5	— 4	— 8	— 6	2	6	—
	17	0	— 1	1	0	2	2	— 2	— 2	— 2	— 2	— 5	— 3	—
	18	2	1	3	1	— 1	8	1	1	— 5	— 8	— 13	— 9	—
	19	3	0	— 2	0	0	— 3	5	4	0	— 1	— 6	— 9	—
	20	— 6	— 4	— 2	— 3	— 1	— 2	10	1	1	1	— 1	— 4	—
	21	— 4	— 6	— 3	— 1	0	6	5	6	8	8	— 1	— 4	—
	22	— 4	12	— 4	— 4	7	6	5	4	1	0	— 7	— 10	—
	23	1	— 3	— 7	— 1	— 4	— 2	0	2	5	2	2	— 4	—
	24	— 1	— 1	0	2	— 1	— 3	— 7	— 5	1	2	1	1	—
	25	1	— 2	— 2	— 3	— 4	— 5	0	2	4	9	12	10	—
	26	0	0	0	0	— 1	— 3	— 6	— 4	0	4	4	5	—
	27	1	— 2	0	1	0	— 3	— 6	— 1	1	4	5	8	—
	28	0	4	1	— 1	— 1	— 6	— 5	— 1	3	2	— 1	— 2	—
	29	— 1	— 3	1	— 5	— 7	— 2	2	4	8	2	3	— 4	—
	30	— 3	2	4	4	3	— 8	— 5	3	2	4	— 1	4	—
Hourly Amount.		64	77	73	74	84	134	130	96	135	154	136	158	—

Mean Batavia Time		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
NOVEMBER.	1	0	— 1	1	— 4	— 4	— 2	1	1	— 1	— 2	1	2	61
	2	5	5	— 4	— 4	— 7	— 1	2	0	1	2	1	2	67
	3	— 9	6	9	5	4	— 2	2	2	— 9	0	1	1	120
	4	— 4	0	— 4	— 5	— 5	3	2	4	2	0	0	2	105
	5	8	1	— 3	— 1	— 7	— 4	— 1	— 2	0	— 1	0	1	74
	6	— 1	1	2	— 3	— 3	— 2	1	2	2	1	1	2	55
	7	— 1	0	— 3	— 7	— 2	1	1	1	2	3	4	0	61
	8	— 2	— 3	— 1	— 2	2	5	3	3	4	— 3	— 2	— 1	67
	9	— 3	1	6	8	4	1	— 4	— 4	— 1	— 2	— 2	— 2	76
	10	— 3	0	5	3	6	4	6	— 10	— 10	— 3	— 3	— 6	106
	11	— 1	— 2	— 1	5	10	2	— 3	— 1	3	— 3	— 2	— 2	78
	12	0	— 5	— 5	— 1	5	1	3	1	— 3	— 5	— 4	— 2	78
	13	— 4	— 6	— 4	— 4	— 1	2	2	4	5	2	2	2	104
	14	2	2	1	3	— 6	— 5	— 2	— 1	1	3	3	3	118
	15	4	0	— 5	— 6	— 5	— 2	1	1	3	3	3	4	73
	16	4	5	2	— 2	— 7	— 5	— 1	2	2	1	2	2	79
	17	1	1	0	— 2	— 2	3	3	0	2	4	3	2	45
	18	— 3	— 2	0	0	0	2	3	4	5	5	1	1	79
	19	— 7	— 2	1	4	8	6	4	3	1	5	1	— 2	77
	20	2	1	5	9	1	— 7	0	1	— 1	0	— 4	— 5	72
	21	— 4	— 4	0	8	19	— 3	— 13	— 14	— 14	— 4	— 8	1	144
	22	— 6	— 7	2	12	5	5	— 3	4	2	2	2	1	115
	23	— 2	0	4	4	0	3	— 2	0	2	0	0	0	50
	24	— 2	— 4	2	1	1	3	0	1	1	— 5	— 1	0	46
	25	7	5	— 1	— 5	— 7	— 6	— 6	— 4	— 1	— 1	0	2	99
	26	7	6	2	— 4	— 6	— 4	— 4	0	— 1	2	3	1	67
	27	11	8	2	— 5	— 6	— 5	— 2	— 1	— 2	— 5	0	0	79
	28	1	0	— 3	2	0	2	1	1	1	2	3	— 3	46
	29	3	10	— 1	— 1	1	— 2	0	0	— 5	— 3	— 4	— 4	76
	30	— 4	— 12	— 10	— 6	— 4	4	2	4	5	6	5	6	111
Hourly Amount.		111	100	89	126	138	97	78	76	92	78	66	62	2428

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

NOVEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 2	— 4	0	— 1	— 2	— 1	2	3	5	3	4	1	—
2	— 5	— 15	— 13	— 10	— 1	— 3	1	2	4	0	1	— 1	—
3	— 2	1	— 5	— 6	— 4	0	1	— 3	— 3	3	0	— 2	—
4	— 8	— 7	— 2	1	— 1	— 5	— 4	0	4	5	6	6	—
5	2	— 5	— 4	— 6	— 7	— 6	— 5	— 3	— 3	1	— 2	1	—
6	0	— 8	— 7	— 4	— 5	— 7	— 5	— 1	3	5	5	3	—
7	— 1	— 1	— 4	— 2	— 1	— 3	0	— 1	5	— 2	— 1	0	—
8	2	— 5	— 2	— 3	— 6	— 5	— 9	— 9	— 2	3	5	5	—
9	— 9	— 2	— 1	6	— 1	5	— 1	— 7	— 11	— 4	— 3	— 6	—
10	11	14	12	10	7	9	— 1	— 13	— 10	— 6	— 6	5	—
11	4	3	7	6	8	4	— 1	— 8	— 3	— 5	3	4	—
12	2	— 1	— 1	— 4	1	1	3	— 4	— 3	— 1	5	4	—
13	0	0	0	1	— 2	2	2	3	3	6	4	0	—
14	1	— 1	8	— 1	— 3	1	7	4	7	— 3	3	— 6	—
15	2	— 4	— 5	— 4	— 2	— 2	1	— 3	5	10	12	7	—
16	— 6	— 2	— 4	— 1	— 3	— 3	1	0	3	5	5	7	—
17	— 4	— 9	— 6	— 5	— 4	— 4	— 2	— 5	2	6	12	15	—
18	1	— 4	2	— 4	— 5	— 11	— 5	— 3	2	2	5	— 3	—
19	— 1	— 5	— 1	— 3	— 3	3	0	— 4	2	— 3	— 13	— 2	—
20	0	2	4	7	5	11	1	68	— 5	— 11	— 13	— 16	—
21	4	34	4	6	6	5	— 2	— 7	— 19	— 16	— 14	— 3	—
22	3	27	20	20	22	— 3	— 13	— 20	— 24	— 21	— 11	— 13	—
23	— 3	6	2	0	— 3	— 6	— 10	— 3	4	8	3	3	—
24	4	0	— 3	— 5	— 2	— 4	— 1	— 4	4	— 2	— 1	— 4	—
25	— 5	— 2	— 4	— 5	— 3	— 4	2	4	6	2	0	1	—
26	2	— 2	2	— 3	— 4	— 5	0	1	6	5	5	0	—
27	0	— 3	0	0	— 4	— 3	0	4	10	3	— 6	— 5	—
28	2	— 7	2	2	7	10	13	0	3	1	3	— 1	—
29	6	— 1	— 2	13	9	19	12	— 4	— 5	— 2	— 10	3	—
30	— 2	3	— 4	— 3	— 1	12	11	5	6	— 6	— 8	— 9	—
Hourly Amount.	94	178	131	142	132	157	116	196	172	150	169	136	—

NOVEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 1	— 2	— 5	— 3	2	6	1	1	3	6	— 2	— 9	69
2	0	5	5	10	9	7	1	2	— 1	— 2	— 6	— 1	105
3	18	10	2	9	4	7	3	2	2	— 11	— 6	— 6	110
4	3	— 2	0	— 2	8	4	4	3	3	3	— 2	— 5	88
5	6	4	0	— 3	3	7	4	3	— 3	2	4	— 3	87
6	5	3	0	1	7	6	4	4	— 1	0	0	— 2	86
7	3	5	0	— 11	0	2	1	5	1	2	0	0	51
8	12	11	6	2	5	9	4	— 1	1	9	— 6	7	129
9	0	— 3	6	— 13	— 8	— 10	3	3	2	5	0	17	126
10	7	7	1	— 2	— 15	— 22	— 32	— 14	8	— 16	— 6	— 7	241
11	14	12	11	5	— 2	0	— 1	— 3	— 6	9	— 3	— 2	124
12	3	0	0	2	— 3	— 5	— 1	— 3	1	3	0	— 1	52
13	— 11	— 13	— 10	— 2	2	5	5	6	4	3	0	0	84
14	— 5	0	— 4	— 16	— 7	— 3	2	1	1	2	— 1	— 4	91
15	— 3	— 3	— 2	— 1	3	2	2	3	— 4	— 2	— 4	— 5	91
16	1	1	0	2	7	5	2	0	— 5	— 1	— 3	— 6	73
17	8	6	4	5	7	8	8	4	2	0	4	— 5	135
18	— 8	— 9	— 10	— 8	1	3	— 1	5	3	8	6	4	113
19	3	9	10	17	3	2	— 8	— 11	— 1	— 12	— 4	— 4	124
20	— 20	— 10	— 18	— 14	— 8	— 2	— 1	7	12	1	11	7	254
21	8	10	26	30	— 32	— 28	— 13	— 14	— 11	— 15	9	27	343
22	— 15	— 4	— 2	— 9	9	— 6	18	5	8	11	2	— 5	291
23	— 4	0	— 6	— 7	4	7	5	— 1	— 8	0	18	18	129
24	— 5	5	— 3	— 3	5	6	4	1	2	8	— 2	— 8	86
25	— 4	— 3	— 2	1	3	1	1	2	— 2	2	— 1	— 2	62
26	— 7	— 9	— 3	1	5	5	0	2	1	0	— 3	— 2	73
27	— 5	1	2	2	6	5	1	— 3	— 10	— 1	— 7	— 6	87
28	— 9	— 8	— 9	— 2	3	6	0	— 2	— 3	— 4	— 10	5	112
29	8	— 20	— 4	7	— 9	— 9	— 2	— 6	2	— 7	14	3	177
30	— 1	— 1	5	3	— 8	— 15	— 7	1	— 3	4	5	0	123
Hourly Amount.	197	176	156	193	188	203	139	118	114	149	139	171	3716

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	3	5	2	3	5	6	1	— 7	— 7	— 8	— 11	— 3	—
	2	5	11	9	4	1	4	2	1	— 4	1	— 4	— 9	—
	3	— 4	— 4	0	0	— 1	— 3	0	8	13	12	5	0	—
	4	2	— 1	— 2	— 4	— 3	— 3	5	8	10	7	0	— 1	—
	5	— 1	2	2	3	3	— 2	5	7	10	5	1	— 9	—
	6	1	4	1	1	0	0	— 1	— 5	— 4	— 5	— 1	2	—
	7	2	4	4	3	3	3	— 5	— 12	— 6	— 1	— 1	0	—
	8	1	4	0	0	0	— 1	— 3	— 7	— 7	— 6	— 6	— 5	—
	9	7	4	2	— 2	2	0	5	5	8	3	— 3	— 3	—
	10	— 7	— 8	— 8	— 6	— 6	— 9	— 1	19	16	8	0	— 2	—
	11	— 8	— 7	— 9	— 8	— 6	— 2	3	6	5	7	0	— 3	—
	12	— 2	0	— 2	0	— 2	— 2	— 3	— 2	— 4	— 7	— 4	0	—
	13	— 1	1	1	2	3	1	1	— 11	— 2	— 2	— 1	2	—
	14	2	3	0	3	5	4	— 2	— 7	— 12	— 5	0	8	—
	15	2	4	4	3	3	7	4	5	— 3	— 10	— 6	— 6	—
	16	— 1	— 3	— 2	— 3	— 3	— 1	— 3	— 2	1	2	— 5	— 8	—
	17	2	1	0	— 1	— 2	— 1	0	— 2	— 5	— 11	— 9	— 5	—
	18	— 1	2	— 3	2	2	1	1	5	— 2	— 2	— 7	1	—
	19	4	6	4	4	4	— 2	— 6	— 9	— 14	— 1	13	10	—
	20	1	1	— 1	— 5	— 3	— 4	— 2	— 11	3	7	6	4	—
	21	1	— 13	3	2	— 1	0	0	3	12	14	19	10	—
	22	2	— 8	— 5	2	— 6	11	18	22	20	3	— 3	— 2	—
	23	4	— 1	3	2	4	2	0	— 9	— 7	— 1	4	7	—
	24	— 3	— 2	— 2	— 2	— 2	— 2	0	1	— 2	0	— 1	7	—
	25	2	1	3	3	3	3	— 2	0	— 5	— 10	— 7	— 1	—
	26	— 3	— 1	— 2	2	2	4	1	1	— 3	— 5	— 4	— 1	—
	27	0	3	4	4	6	7	1	— 7	— 3	2	6	— 3	—
	28	— 3	1	— 1	— 3	— 5	— 4	— 5	— 2	— 4	— 2	— 5	— 4	—
	29	— 5	— 4	— 3	— 8	— 7	— 12	— 4	6	2	2	11	4	—
	30	— 1	— 5	— 2	— 2	0	— 6	— 11	— 8	— 6	1	3	9	—
Hourly Amount.		81	114	84	87	93	107	95	198	200	150	146	129	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
NOVEMBER.	1	7	7	6	5	— 2	— 6	— 3	— 3	— 1	— 4	0	7	112
	2	— 5	— 3	3	0	— 6	— 4	0	— 2	0	0	3	— 1	82
	3	— 14	— 15	— 9	— 7	— 2	— 3	0	2	5	5	4	1	117
	4	— 4	— 2	— 3	— 1	— 7	— 7	— 4	0	0	0	4	6	84
	5	— 8	— 4	— 1	1	— 3	— 5	— 3	— 1	1	0	— 1	3	81
	6	4	— 4	1	1	— 1	— 2	— 1	1	1	2	3	5	51
	7	4	1	1	8	— 2	— 4	— 3	— 3	— 3	— 1	3	3	80
	8	3	8	9	4	— 1	— 3	— 2	2	— 2	— 6	6	— 5	91
	9	— 7	— 2	— 2	4	3	3	— 3	— 5	— 6	— 7	— 4	— 10	100
	10	1	— 1	2	6	13	11	9	3	— 7	3	— 2	— 2	150
	11	— 5	— 1	— 2	1	8	6	2	2	4	— 3	1	0	99
	12	0	7	6	0	2	5	3	3	— 1	— 1	0	1	57
	13	8	5	1	— 5	— 7	— 7	— 5	— 5	— 2	— 1	1	1	76
	14	6	3	0	6	4	— 2	— 2	— 5	— 3	— 4	— 1	2	89
	15	1	4	5	3	— 2	— 2	0	1	3	1	1	2	82
	16	0	4	5	5	1	— 2	0	1	3	1	3	4	63
	17	1	5	5	3	2	— 1	— 1	0	0	1	— 2	2	62
	18	5	2	0	— 1	— 5	— 5	— 2	— 3	0	0	0	3	55
	19	5	— 4	— 10	— 14	— 1	3	3	10	— 1	7	3	0	138
	20	2	— 5	— 3	0	0	1	— 3	— 7	— 6	0	— 12	— 1	88
	21	— 7	— 14	— 20	— 24	6	19	20	8	5	5	— 3	— 20	229
	22	— 7	— 9	— 16	— 7	— 13	— 5	— 10	— 5	— 3	— 4	2	8	191
	23	6	— 2	3	2	— 3	— 3	— 2	1	4	— 1	— 10	— 11	92
	24	12	7	4	4	0	— 2	— 2	— 2	— 2	— 3	0	5	67
	25	2	3	3	4	2	3	1	0	0	— 3	0	— 1	62
	26	3	3	2	— 1	— 1	— 3	0	0	0	0	2	2	46
	27	— 10	— 4	— 3	— 2	— 3	— 3	2	2	6	2	3	3	89
	28	1	7	7	4	1	— 2	0	2	1	2	4	— 2	72
	29	— 4	6	7	2	9	12	— 1	3	3	4	— 8	— 3	130
	30	3	3	2	— 1	6	8	3	0	1	— 2	— 2	1	86
Hourly Amount.		145	145	141	126	116	142	90	82	74	73	88	115	2821

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

DECEMBER. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	11	8	7	7	4	5	— 2	— 4	— 6	— 9	— 7	— 5	—
2	5	3	6	5	1	7	0	— 8	— 8	— 8	— 4	7	—
3	5	4	7	9	10	13	9	— 11	— 18	— 18	— 16	— 10	—
4	5	6	6	6	8	7	4	— 6	— 13	— 11	— 6	— 6	—
5	4	0	2	3	5	8	6	3	— 6	— 11	— 15	— 15	—
6	3	2	3	5	7	9	9	— 2	— 11	— 19	— 18	— 14	—
7	— 10	— 9	— 5	— 3	— 1	3	6	12	7	9	3	9	—
8	— 6	— 5	— 2	— 2	— 2	— 1	1	2	6	6	2	0	—
9	— 3	— 3	— 2	— 3	— 4	— 6	— 1	2	8	5	— 1	— 7	—
10	— 2	— 2	— 3	— 3	— 3	— 5	— 1	2	6	6	6	7	—
11	— 5	— 7	— 6	— 5	— 8	— 3	6	12	14	14	12	11	—
12	— 2	— 2	— 3	— 3	0	— 2	— 1	1	1	8	12	8	—
13	2	1	— 1	— 1	— 1	0	— 1	— 5	— 6	— 2	0	— 1	—
14	— 3	— 3	0	1	— 2	1	— 3	— 7	2	4	5	3	—
15	2	5	3	3	2	— 4	— 2	— 7	— 8	— 2	0	3	—
16	4	1	3	2	1	— 1	— 2	— 4	— 3	2	2	5	—
17	— 4	— 7	— 6	— 13	— 6	— 8	6	12	14	13	11	15	—
18	— 2	0	0	— 3	— 4	7	— 7	— 2	— 4	— 7	— 1	2	—
19	2	2	— 1	2	— 1	1	— 2	1	0	— 4	— 8	— 8	—
20	0	0	— 1	0	1	— 1	0	4	2	— 4	— 4	— 3	—
21	0	1	— 1	2	2	5	5	4	1	— 5	— 11	— 12	—
22	4	4	1	— 3	— 6	— 2	4	1	2	1	5	— 1	—
23	— 2	— 2	— 3	— 4	— 3	— 7	— 3	2	3	5	9	9	—
24	1	— 1	0	2	1	— 1	— 3	— 2	— 3	— 4	— 4	— 4	—
25	— 2	— 3	— 2	0	— 1	— 4	— 5	1	4	4	4	— 2	—
26	0	0	1	0	— 2	— 5	— 5	7	9	10	2	— 9	—
27	— 5	7	3	1	— 1	— 6	— 1	— 1	6	— 3	1	0	—
28	— 1	— 4	— 4	— 4	— 2	— 6	— 6	6	9	14	8	11	—
29	— 3	— 1	— 6	— 2	— 1	1	— 2	5	7	13	4	5	—
30	1	2	4	4	4	— 1	— 10	— 11	— 6	— 1	5	6	—
31	4	1	1	0	3	— 2	1	0	— 3	— 2	0	— 5	—
Hourly Amount.	103	96	93	101	97	132	114	147	196	224	186	203	—

DECEMBER. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 4	— 6	— 5	— 4	— 5	1	0	2	2	4	3	5	116
2	12	8	2	— 4	— 4	— 2	— 5	— 8	— 1	— 1	1	4	114
3	1	4	0	— 4	— 7	2	0	1	1	2	2	4	158
4	— 4	1	1	— 3	— 1	— 2	0	1	3	3	3	4	110
5	— 4	5	4	2	0	— 2	3	3	4	3	3	2	113
6	— 11	1	2	8	6	6	3	1	2	0	— 1	— 6	149
7	7	5	2	— 1	— 3	0	1	— 5	— 4	— 6	— 3	— 5	119
8	0	0	0	3	0	2	— 2	— 2	— 3	— 1	— 4	— 1	53
9	— 3	— 4	— 4	1	4	5	2	3	3	1	0	— 1	76
10	2	— 3	— 6	— 5	— 1	1	1	1	0	— 1	— 3	— 4	74
11	11	3	— 6	— 13	— 8	— 4	— 3	— 2	— 1	0	0	— 2	156
12	— 1	0	— 6	— 11	— 5	— 1	2	3	3	3	1	2	81
13	3	3	2	1	2	1	— 1	6	0	— 1	— 3	— 1	45
14	— 4	— 1	2	1	— 5	— 2	— 2	— 2	— 1	1	3	4	62
15	1	0	3	2	— 2	— 4	— 3	— 3	0	1	1	5	66
16	13	11	4	1	1	— 12	— 4	— 2	— 1	— 4	— 3	— 5	91
17	14	16	6	— 6	— 9	— 6	— 3	— 4	— 3	— 7	1	— 8	198
18	2	— 3	— 4	0	— 1	— 1	— 1	3	0	— 2	— 1	3	60
19	2	0	11	9	6	— 6	— 2	— 1	— 7	0	— 7	— 4	87
20	— 9	— 1	6	7	5	4	1	1	— 4	1	1	3	63
21	— 15	— 10	— 3	1	5	7	8	12	4	4	— 4	5	127
22	— 7	— 15	1	8	13	4	— 3	— 11	3	1	— 4	— 4	108
23	7	2	— 4	— 5	— 1	1	— 1	— 2	— 1	— 1	1	1	79
24	— 7	— 2	0	2	4	2	2	3	4	2	2	— 1	57
25	— 4	— 5	— 3	3	0	2	2	0	— 2	— 2	— 2	0	57
26	— 10	— 7	6	6	4	1	1	2	— 2	— 2	5	— 9	105
27	— 1	0	5	3	5	2	— 1	— 2	0	— 2	— 2	0	58
28	5	— 12	— 10	— 3	— 2	— 1	0	— 3	— 2	— 4	— 3	— 1	121
29	5	5	— 4	— 3	— 1	0	— 2	— 1	— 1	0	— 1	1	74
30	0	— 3	— 9	— 7	— 2	— 1	4	2	2	2	3	4	94
31	— 4	1	2	3	— 6	— 3	— 1	2	2	5	7	7	65
Hourly Amount	173	137	123	130	118	88	64	94	66	67	78	106	2936

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER. 1	6	14	9	6	6	0	2	— 2	4	7	4	— 4	—
2	0	— 1	6	0	— 6	— 12	— 10	— 5	— 1	8	9	4	—
3	0	0	— 1	— 2	0	— 4	— 3	1	1	0	9	9	—
4	— 2	— 2	— 4	1	— 3	— 1	— 1	— 3	2	2	5	2	—
5	— 2	— 2	— 2	— 4	— 5	3	— 2	0	2	— 2	3	5	—
6	— 6	— 7	— 11	— 1	— 2	— 1	— 6	— 7	— 8	— 4	— 4	5	—
7	— 9	— 11	— 7	— 10	— 9	— 9	— 6	— 9	— 4	— 8	0	1	—
8	14	1	— 1	— 2	4	— 1	— 2	0	3	1	7	3	—
9	— 2	0	1	0	— 2	— 5	— 1	0	1	5	3	7	—
10	— 6	0	1	1	1	1	2	3	3	5	— 2	— 2	—
11	— 2	2	— 3	— 5	— 5	— 5	— 1	3	5	3	3	— 1	—
12	— 5	— 3	— 3	— 4	— 5	— 4	— 3	2	2	1	— 4	— 1	—
13	2	3	5	9	3	7	7	13	15	5	4	1	—
14	— 10	— 3	— 2	2	0	1	0	0	1	0	— 7	— 3	—
15	— 2	2	1	— 1	— 4	— 4	— 7	— 2	7	6	10	6	—
16	— 4	— 2	— 1	— 5	— 6	— 10	— 16	— 13	— 9	— 7	— 2	9	—
17	— 5	— 7	— 8	5	4	2	— 3	— 2	— 1	— 6	— 1	— 1	—
18	18	7	0	3	24	13	25	3	— 9	— 7	— 11	— 5	—
19	0	— 3	0	0	0	6	8	— 2	1	2	7	12	—
20	— 7	— 4	3	— 1	0	— 1	— 7	— 3	— 6	— 4	3	7	—
21	4	1	9	— 4	— 2	— 1	1	0	— 3	4	— 2	1	—
22	9	16	5	1	14	34	17	13	— 7	— 15	— 43	— 41	—
23	6	10	9	9	6	6	2	0	— 5	— 4	5	8	—
24	— 5	— 1	3	— 1	0	— 2	— 3	— 1	1	2	5	4	—
25	— 6	— 4	— 5	— 5	— 4	— 5	— 3	— 2	1	1	— 5	— 4	—
26	— 2	3	0	9	3	— 1	8	— 2	— 4	— 5	— 9	— 4	—
27	— 2	— 20	— 9	— 6	— 9	— 3	2	7	— 3	7	5	5	—
28	8	5	4	— 2	— 2	4	4	2	7	6	2	— 10	—
29	8	8	7	2	1	6	3	1	1	— 10	— 3	— 15	—
30	1	0	— 1	— 2	0	— 1	— 1	7	7	4	7	2	—
31	0	— 1	— 4	4	— 2	— 5	— 4	— 2	4	6	4	5	—
Hourly Amount.	153	143	125	107	132	158	160	110	128	147	188	187	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
DECEMBER. 1	— 7	— 7	— 7	— 5	— 4	— 4	— 3	2	3	4	7	2	119
2	— 2	— 3	0	3	6	3	2	— 1	— 4	— 4	— 4	0	94
3	— 4	— 1	— 5	0	1	— 5	0	1	0	0	— 1	— 1	49
4	8	3	4	0	1	0	0	— 1	0	2	2	1	50
5	5	5	2	0	4	— 2	— 6	2	5	6	2	— 9	80
6	19	17	14	3	4	2	13	16	8	6	1	— 4	169
7	— 2	3	9	7	8	0	— 11	0	— 2	12	— 6	— 7	150
8	0	— 6	— 11	— 7	1	1	— 1	— 3	2	— 2	1	— 1	75
9	4	4	0	0	4	2	1	— 4	— 5	0	1	— 5	57
10	— 6	— 5	— 5	— 4	1	— 2	3	1	1	2	1	— 2	60
11	2	6	5	5	6	7	7	4	— 3	— 6	— 5	— 6	100
12	— 8	— 7	— 3	— 2	— 2	— 2	— 2	— 1	0	1	2	— 2	69
13	1	0	— 5	— 4	— 5	— 6	— 2	— 9	3	4	11	— 8	132
14	— 1	— 2	— 11	— 8	— 6	— 7	— 5	2	6	7	4	— 2	90
15	9	7	5	5	2	— 1	0	2	5	7	5	— 4	104
16	23	39	35	19	2	10	— 1	— 18	— 28	— 33	— 10	11	313
17	— 11	— 15	— 10	16	15	12	— 2	— 4	— 15	— 12	— 24	6	187
18	— 9	— 10	0	— 2	— 7	2	7	— 4	— 5	8	— 4	2	185
19	— 4	— 9	4	4	— 9	6	— 12	— 5	3	— 8	14	— 4	123
20	12	9	1	1	1	0	0	— 8	2	— 3	— 1	13	97
21	— 2	4	— 1	9	10	3	5	— 5	12	— 13	— 3	— 3	102
22	— 23	— 8	— 9	— 24	— 36	— 24	— 13	6	— 6	9	26	12	411
23	5	2	— 2	— 3	— 4	— 1	0	5	4	— 2	— 2	— 8	108
24	3	— 1	— 5	1	7	6	3	3	3	4	— 3	— 8	75
25	13	16	20	0	— 12	— 11	— 4	— 1	5	7	1	— 3	138
26	2	— 1	0	7	9	7	2	2	6	— 1	— 7	1	95
27	— 4	— 8	— 4	— 1	6	2	6	2	— 10	— 9	0	18	148
28	— 6	— 13	— 10	— 10	— 3	5	6	6	— 5	4	— 4	5	133
29	— 3	— 13	0	6	3	2	2	6	5	3	— 4	— 11	123
30	— 5	— 7	— 8	— 9	— 3	— 7	— 3	1	4	8	3	22	113
31	— 4	1	— 5	— 6	— 1	2	7	— 1	0	— 5	— 2	— 4	79
Hourly Amount.	207	232	200	171	183	144	129	126	160	192	161	185	3828

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER.	1	— 3	— 8	— 4	— 1	— 1	6	7	7	3	0	— 2	— 2	—
	2	4	4	0	6	10	12	17	17	13	11	7	— 13	—
	3	— 4	— 6	— 6	— 4	— 5	0	13	24	17	12	3	— 3	—
	4	1	2	3	— 1	1	0	2	5	1	— 6	— 9	— 3	—
	5	2	1	1	2	3	— 1	3	11	12	9	6	— 8	—
	6	6	5	7	2	1	— 1	6	10	9	3	0	— 7	—
	7	12	10	7	7	5	1	— 1	— 9	— 8	— 3	— 4	— 3	—
	8	— 2	5	6	8	6	4	0	— 14	— 20	— 16	— 10	0	—
	9	0	— 1	— 3	— 3	— 4	— 4	— 3	0	2	2	— 3	0	—
	10	— 2	— 2	— 3	— 3	— 4	— 3	— 8	0	1	0	0	2	—
	11	1	0	3	3	4	1	3	— 10	— 9	— 5	5	7	—
	12	0	— 1	— 2	0	— 1	0	— 1	— 1	— 6	— 11	— 9	2	—
	13	— 1	— 1	— 2	— 3	1	— 2	— 4	— 11	— 9	— 9	— 9	— 3	—
	14	2	— 4	— 6	— 8	— 6	— 6	— 5	2	— 1	— 4	4	7	—
	15	2	2	2	4	6	10	9	— 2	— 7	— 7	— 8	— 1	—
	16	3	0	0	1	1	2	1	— 12	— 13	— 3	1	0	—
	17	— 3	— 2	— 1	— 4	— 5	— 4	— 7	— 5	— 3	2	— 2	— 7	—
	18	— 15	— 11	— 5	— 7	— 17	— 10	— 6	21	27	18	13	6	—
	19	— 1	2	2	2	1	— 4	— 2	5	5	6	0	1	—
	20	6	2	0	2	0	— 1	0	— 4	2	2	— 2	— 6	—
	21	0	3	1	5	2	— 1	— 2	— 2	6	8	7	2	—
	22	— 4	— 2	2	2	— 3	— 13	— 8	— 6	— 3	— 1	8	12	—
	23	1	— 2	— 2	— 2	— 1	2	— 6	— 6	— 3	— 3	— 6	— 2	—
	24	4	2	2	4	3	6	4	— 8	— 7	1	3	2	—
	25	3	2	2	— 1	— 1	— 2	— 6	— 14	— 14	— 3	6	6	—
	26	0	— 4	— 1	— 4	— 2	2	— 3	2	7	5	6	3	—
	27	2	10	3	3	4	5	— 3	— 12	— 5	— 3	1	— 1	—
	28	— 4	— 7	— 5	— 2	— 2	— 4	— 2	1	4	— 1	— 3	8	—
	29	— 5	— 2	— 1	0	1	0	2	2	2	4	3	0	—
	30	— 4	— 3	— 3	— 3	— 2	2	— 1	7	— 3	— 4	— 6	— 1	—
	31	3	6	7	0	3	4	2	— 4	— 4	— 4	— 2	0	—
Hourly Amount.		100	112	92	97	106	113	137	234	226	166	148	118	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
DECEMBER.	1	— 4	— 3	— 3	— 3	— 4	— 5	— 2	— 2	— 4	— 4	— 4	2	84
	2	— 11	— 14	— 15	— 11	— 7	— 6	— 2	— 3	0	— 2	— 4	— 4	193
	3	— 3	— 4	— 5	— 4	— 3	1	— 1	— 1	0	1	1	3	124
	4	— 3	— 3	— 2	— 2	— 1	0	1	1	0	— 2	— 1	2	52
	5	— 18	— 14	— 4	— 6	— 6	0	2	— 2	— 3	— 4	1	7	126
	6	— 17	— 11	— 5	3	— 2	— 2	— 6	— 8	— 3	0	2	8	124
	7	4	4	4	2	0	1	5	0	— 1	— 9	5	8	113
	8	2	5	4	— 2	— 6	1	2	3	— 2	1	— 2	1	122
	9	4	7	9	3	0	1	— 1	1	4	1	— 2	— 2	60
	10	5	3	2	0	— 2	— 1	— 3	— 1	1	3	1	2	52
	11	4	4	7	8	1	— 3	— 4	— 3	— 2	1	0	— 2	90
	12	10	13	10	4	0	0	0	1	0	— 1	— 1	0	74
	13	7	14	15	4	3	6	2	5	0	— 1	— 5	3	120
	14	7	7	7	7	6	3	1	— 2	— 6	— 4	— 5	1	111
	15	— 1	— 7	— 11	— 1	2	0	1	0	— 2	— 4	— 3	4	96
	16	— 2	— 3	1	12	16	4	7	11	13	13	— 1	— 11	131
	17	— 2	3	9	— 2	— 5	— 5	6	0	5	7	8	— 6	103
	18	2	1	— 2	— 4	— 4	— 7	— 9	0	3	— 6	2	— 5	201
	19	— 2	— 7	— 12	— 4	7	3	5	3	0	4	— 2	6	86
	20	— 4	— 7	— 7	— 5	2	2	0	5	— 1	2	0	— 2	64
	21	— 7	— 11	— 8	— 12	— 10	— 4	— 3	1	— 7	12	10	8	132
	22	8	— 2	— 5	8	17	12	8	0	1	— 6	— 11	— 4	146
	23	— 1	5	5	5	2	— 1	0	0	0	2	2	6	65
	24	1	— 2	1	— 4	— 6	— 3	— 1	— 1	— 1	— 1	4	4	75
	25	4	1	0	4	7	8	3	0	— 4	— 4	— 3	1	99
	26	— 1	— 3	— 5	— 5	0	0	— 1	— 1	1	3	2	5	66
	27	1	0	— 6	4	— 1	0	0	— 2	5	4	0	— 8	83
	28	25	13	9	— 1	— 2	— 4	— 5	— 3	4	— 1	1	— 3	114
	29	— 1	3	— 4	— 3	— 2	— 1	— 1	0	— 3	— 2	0	4	46
	30	0	5	6	0	— 2	4	2	2	3	0	1	— 30	94
	31	5	2	6	4	— 1	— 3	— 4	— 1	— 1	3	3	4	76
Hourly Amount.		166	181	189	137	127	91	88	63	80	108	87	156	3122

RESULTS OF METEOROLOGICAL OBSERVATIONS.

TABLE 1. Mean height of the Barometer in 1887.

Barometer at 0°C = 750mm + the numbers in the Table.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
1 a. m.	7.87	8.46	8.51	8.14	8.65	8.88	9.63	9.31	9.77	9.09	8.73	8.41	8.79
2	7.43	8.08	8.08	7.72	8.24	8.51	9.31	8.94	9.35	8.69	8.33	7.97	8.39
3	7.11	7.87	7.84	7.53	8.06	8.22	9.01	8.63	9.10	8.54	8.11	7.66	8.14
4	7.05	7.81	7.77	7.51	7.99	8.11	8.98	8.54	9.13	8.62	8.11	7.53	8.10
5	7.26	7.94	7.98	7.64	8.17	8.32	9.16	8.70	9.33	8.86	8.37	7.82	8.30
6	7.65	8.32	8.28	7.99	8.52	8.61	9.42	9.02	9.76	9.20	8.74	8.26	8.65
7	8.17	8.77	8.68	8.48	9.01	8.99	9.80	9.38	10.25	9.71	9.29	8.75	9.11
8	8.56	9.28	9.20	8.87	9.44	9 39	10.21	9.83	10.65	10.06	9.67	9.10	9.52
9	8.74	9.50	9.43	9.14	9.67	9.52	10 38	10.05	10.83	10.11	9.80	9.26	9.70
10	8.66	9.37	9.31	9.09	9.48	9.30	10.21	9.89	10.66	9.89	9.62	9.12	9.55
11	8.39	9.10	8.91	8.66	9.09	8.95	9.79	9.43	10.13	9.42	9.25	8.71	9.15
12	7.86	8.59	8.37	8.01	8.45	8.41	9.16	8.76	9.39	8.70	8.64	8.25	8.55
1 p. m.	7.15	7.90	7.63	7.32	7.79	7.79	8.54	8.18	8.72	7.95	7.91	7.63	7.88
2	6.48	7.27	7.03	6.73	7.20	7.20	7.97	7.59	8.09	7.40	7.36	7.03	7.28
3	5.91	6.80	6.66	6.31	6.87	6.87	7.63	7.23	7.73	7.11	6.98	6.59	6.89
4	5.78	6.63	6.45	6.26	6.98	6.85	7.63	7.12	7.66	7.04	7.00	6.59	6.83
5	6.06	6.81	6.75	6.62	7.42	7.14	7.89	7.34	7.99	7.47	7.41	7.00	7.16
6	6.66	7.31	7.37	7.09	7.85	7.53	8.37	7.82	8.53	8.05	7.99	7.69	7.69
7	7.23	7.94	7.95	7.66	8.33	8.11	8.82	8.42	9.15	8.74	8.60	8.27	8.27
8	7.76	8.51	8.47	8.21	8.82	8.69	9.44	9.02	9.69	9.31	9.12	8.68	8 81
9	8.21	8.92	8.86	8.63	9.24	9.15	9.87	9.48	10.13	9.76	9.58	9.01	9.24
10	8.47	9.21	9.16	8.83	9.41	9.34	10.12	9.76	10.41	10.00	9.69	9.17	9.46
11	8.47	9.20	9.19	8.85	9.29	9.25	10.19	9.84	10.43	9.87	9.57	9.13	9.44
12	8.16	8.93	8.92	8.58	9.06	9.14	10.07	9.68	10.21	9.52	9.15	8.83	9.19
Monthly Means.	7.65	8.27	8.20	7.91	8.46	8.43	9.23	8.83	9.46	8.88	8.63	8.19	8.50

TABLE 2. Mean Temperature of the Air in 1887.

Centesimal degrees.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	23°91	23°86	24°06	24°29	24°11	23°52	23°44	23°82	23°90	23°75	23°89	23°72	23°86
2	23.75	23.75	23.95	24.07	23.93	23.31	23.10	23.47	23.70	23.51	23.73	23.54	23 65
3	23.62	23.62	23.68	23.90	23.77	23.10	22.82	23.18	23.46	23.27	23.54	23.40	23.45
4	23.47	23.52	23.47	23.66	23.61	22.86	22.54	22.92	23.29	23.05	23.42	23.25	23.26
5	23.35	23.43	23.34	23.48	23.42	22.63	22.23	22.75	23.12	22.83	23.29	23.12	23.08
6	23.23	23.31	23.21	23.32	23.30	22.44	21.97	22.56	22.97	22.67	23.22	23.12	22.94
7	23.61	23.52	23.45	23.60	23.55	22.69	22.12	22.82	23.37	23.53	23.80	23.61	23.31
8	24.71	24.35	24.52	24.79	24.63	23.66	23.40	24.12	24.58	25.30	25.04	24.79	24.49
9	26.07	25.48	25.91	26.30	26.00	25.24	25.33	25.87	26.26	27.14	26.46	26.18	26.02
10	27.07	26.41	27.02	27.62	27.31	26.48	26.86	27.45	27.49	28.63	27.83	27.29	27.29
11	27.79	27.10	27.91	28.74	28.32	27.58	28.12	28.66	28.40	29.67	28.42	28.24	28.25
12	28.20	27.44	28.38	29.08	28.92	28.39	28.98	29.45	28.96	30.18	28.75	28.61	28.78
1 p. m.	28.33	27.84	28.62	29.10	29.23	28.94	29.37	29.71	29.25	30.30	28.98	28.61	29.02
2	28.58	28.06	28.73	29.20	29.25	29.13	29.35	29.64	29.18	29.90	28.93	28 34	29.02
3	28.23	27.93	28.25	28.89	28.80	28.90	29.09	29.31	28.67	29.47	28.39	27.77	28.64
4	27.79	27.51	27.81	28.20	28.04	28.32	28.53	28.80	28.21	28.94	27.95	27.25	28.11
5	27.21	27.11	27.25	27.71	27.31	27.85	27.87	28.21	27.64	28.06	27.00	26.77	27.50
6	26.51	26.42	26.50	27.09	26.35	27.02	26.90	27.40	26.94	27.24	26.01	25.97	26.70
7	25.74	25.67	25.86	26.50	25.76	26.18	26.02	26.63	26.00	26.19	25.38	25.29	25.94
8	25.26	25.06	25.41	25.98	25.38	25.48	25.33	25.97	25.40	25.38	25.02	24.87	25.38
9	24.96	24.78	25.08	25.47	25.01	24.99	24.78	25.44	24.93	24.98	24.80	24.51	24.98
10	24.68	24.51	24.77	25.15	24.69	24.57	24.37	24.97	24.70	24.58	24.53	24.29	24.65
11	24.36	24.29	24.45	24.85	24.46	24.19	24.04	24.59	24.44	24.26	24.32	24.08	24.36
12	24.18	24.11	24.23	24.57	24.25	23.82	23.70	24.21	24.22	23.94	24.11	23.91	24.10
Monthly Means.	25.61	25.37	25.66	26.07	25.81	25.47	25.43	25.92	25.80	26.12	25.70	25.44	25.70

TABLE 3. Mean relative Humidity of the Air in 1887.

Saturation = 1000.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	936	915	934	902	935	916	901	884	925	899	923	928	917
2	942	918	937	910	937	920	912	890	927	904	926	932	921
3	946	925	942	915	936	925	913	896	930	909	929	936	925
4	950	929	948	923	938	929	917	899	931	911	930	940	929
5	951	931	950	924	941	932	919	896	935	914	934	940	931
6	954	933	947	929	943	935	919	898	938	908	938	939	932
7	943	929	940	921	937	931	910	883	922	873	922	929	920
8	899	903	892	880	896	895	866	835	874	815	869	877	875
9	832	855	837	815	843	826	789	756	796	741	806	812	809
10	785	816	791	755	780	769	710	676	726	665	739	761	748
11	756	782	751	705	733	719	643	619	681	613	722	714	703
12	737	769	734	695	713	678	610	596	663	601	701	707	684
1 p. m.	739	760	727	706	694	655	603	595	667	608	695	716	680
2	727	745	729	700	702	661	619	610	673	635	700	737	687
3	748	745	745	713	718	679	633	623	692	646	728	753	702
4	763	774	768	744	760	704	655	653	716	672	753	781	729
5	788	794	791	767	790	736	691	680	751	711	788	789	756
6	827	817	835	801	833	784	747	724	778	759	837	827	797
7	867	854	868	832	872	815	800	765	828	806	869	863	837
8	888	877	885	854	890	850	841	798	856	840	885	882	862
9	901	888	898	877	905	870	867	828	882	856	891	893	880
10	914	900	909	891	914	883	882	845	892	869	905	902	892
11	924	904	916	897	926	895	891	859	904	883	907	912	902
12	928	910	923	904	932	907	899	869	912	895	917	919	910
Monthly Means.	860	857	858	832	853	826	797	774	825	789	842	850	830

TABLE 3A. Mean relative Humidity of the Air in 1887.

Calculated according to Weihrauch's method.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	934	915	933	901	934	915	902	882	923	898	923	929	915
2	940	918	935	908	936	920	913	889	926	904	925	932	921
3	943	924	940	913	936	925	914	895	929	909	929	937	924
4	948	927	946	922	938	930	919	899	930	911	930	941	928
5	948	928	948	924	940	933	921	897	935	915	933	941	931
6	952	931	945	928	942	936	922	897	940	909	938	940	932
7	944	930	939	921	938	931	913	883	922	876	923	932	921
8	900	905	895	882	898	897	869	836	875	818	872	880	877
9	834	857	839	819	845	830	792	758	799	744	810	815	812
10	789	817	792	759	782	773	714	679	729	668	742	764	750
11	758	783	750	708	736	719	645	621	684	616	723	717	704
12	739	767	732	697	716	677	613	598	665	602	700	709	683
1 p. m.	740	759	726	703	697	656	606	598	667	608	696	716	680
2	728	744	728	697	703	660	620	612	674	635	700	738	686
3	749	744	744	710	718	678	635	624	692	646	728	753	701
4	764	772	764	739	758	704	657	654	715	672	753	780	727
5	788	792	786	764	786	737	692	679	748	709	787	789	754
6	825	816	832	799	829	782	746	723	775	758	834	828	795
7	865	850	866	830	869	813	799	764	826	803	866	863	834
8	887	874	882	852	887	849	840	797	853	838	884	883	860
9	900	886	896	874	904	869	866	827	881	855	889	894	878
10	912	899	907	888	911	881	883	845	890	869	903	902	891
11	922	903	915	894	923	893	892	858	903	882	906	913	900
12	926	910	923	901	930	907	900	869	911	895	917	920	909
Monthly Means.	855	853	852	826	847	818	789	765	817	780	837	846	824

TABLE 4. Mean Tension of the Atmospheric vapour in 1887.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
1 a. m.	20.60	20.12	20.76	20.34	20.86	19.73	19.35	19.37	20.35	19.64	20.34	20.26	20.14
2	20.54	20.06	20.69	20.24	20.68	19.58	19.19	19.12	20.17	19.47	20.20	20.13	20.01
3	20.45	20.04	20.45	20.13	20.48	19.45	18.90	18.91	19.96	19.30	20.05	20.06	19.85
4	20.38	19.98	20.33	20.05	20.32	19.27	18.68	18.70	19.79	19.09	19.93	19.96	19.71
5	20.23	19.91	20.21	19.87	20.15	19.07	18.37	18.46	19.68	18.92	19.84	19.82	19.54
6	20.18	19.82	20.00	19.78	20.04	18.91	18.10	18.26	19.60	18.62	19.86	19.79	19.41
7	20.45	20.04	20.18	19.95	20.25	19.09	18.07	18.26	19.71	18.90	20.24	20.19	19.61
8	20.83	20.51	20.50	20.52	20.70	19.50	18.61	18.69	20.10	19.62	20.58	20.49	20.05
9	20.94	20.77	20.86	20.85	21.12	19.84	19.04	18.81	20.28	19.89	20.82	20.59	20.32
10	20.99	20.94	21.01	20.86	21.13	19.87	18.79	18.48	19.90	19.49	20.64	20.60	20.23
11	21.05	20.87	20.96	20.79	21.08	19.71	18.26	18.14	19.69	19.08	20.82	20.44	20.07
12	21.03	20.87	21.05	20.85	21.23	19.47	18.25	18.29	19.76	19.18	20.55	20.65	20.10
1 p. m.	21.20	21.13	21.15	21.06	21.02	19.46	18.46	18.55	20.17	19.51	20.70	20.86	20.27
2	21.17	20.98	21.34	20.99	21.25	19.81	18.87	18.91	20.30	19.91	20.76	21.16	20.45
3	21.33	20.81	21.21	21.01	21.15	20.08	19.00	18.93	20.24	19.78	20.93	20.87	20.45
4	21.22	21.11	21.25	21.02	21.36	20.15	19.06	19.24	20.34	19.94	21.10	21.00	20.57
5	21.16	21.15	21.16	21.12	21.24	20.52	19.29	19.33	20.58	19.99	20.85	20.63	20.59
6	21.27	20.91	21.43	21.28	21.17	20.76	19.66	19.63	20.48	20.37	20.87	20.65	20.71
7	21.30	20.85	21.46	21.36	21.40	20.54	19.99	19.82	20.63	20.31	20.87	20.69	20.77
8	21.21	20.66	21.30	21.26	21.37	20.57	20.18	19.88	20.59	20.20	20.84	20.64	20.73
9	21.13	20.61	21.19	21.17	21.29	20.45	20.13	20.00	20.66	20.11	20.69	20.45	20.66
10	21.07	20.57	21.07	21.11	21.08	20.23	20.03	19.87	20.60	19.96	20.68	20.36	20.55
11	20.90	20.39	20.87	20.87	21.05	20.04	19.83	19.72	20.57	19.89	20.50	20.34	20.41
12	20.75	20.32	20.75	20.69	20.95	19.90	19.61	19.51	20.47	19.78	20.47	20.29	20.29
Monthly Means.	20.89	20.56	20.88	20.72	20.93	19.83	19.07	19.04	20.19	19.62	20.55	20.46	20.23

TABLE 4A. Deficiency of Saturation for the year 1887.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
1 a. m.	1.46	1.88	1.50	2.24	1.47	1.83	2.11	2.58	1.70	2.22	1.70	1.56	1.86
2	1.32	1.80	1.43	2.04	1.41	1.71	1.83	2.38	1.62	2.08	1.63	1.46	1.72
3	1.24	1.65	1.31	1.92	1.40	1.57	1.77	2.21	1.53	1.94	1.54	1.35	1.63
4	1.12	1.58	1.17	1.69	1.35	1.45	1.65	2.09	1.48	1.87	1.51	1.26	1.52
5	1.12	1.54	1.12	1.64	1.29	1.37	1.58	2.12	1.37	1.76	1.43	1.23	1.45
6	1.01	1.47	1.16	1.53	1.24	1.29	1.53	2.09	1.25	1.86	1.32	1.26	1.41
7	1.22	1.52	1.30	1.71	1.35	1.42	1.74	2.41	1.66	2.68	1.68	1.48	1.68
8	2.32	2.15	2.40	2.75	2.34	2.24	2.80	3.66	2.87	4.36	3.03	2.78	2.81
9	4.16	3.47	4.00	4.60	3.87	4.06	4.99	6.00	5.11	6.84	4.87	4.67	4.70
10	5.63	4.68	5.53	6.63	5.88	5.85	7.51	8.75	7.39	9.67	7.19	6.37	6.74
11	6.71	5.80	7.00	8.55	7.55	7.72	10.04	11.07	9.08	10.89	7.98	8.06	8.45
12	7.41	6.34	7.69	9.07	8.41	9.28	11.50	12.29	9.95	12.70	8.81	8.48	9.31
1 p. m.	7.45	6.71	7.99	8.90	9.16	10.22	11.98	12.49	10.05	12.59	9.05	8.27	9.55
2	7.91	7.22	7.99	9.14	8.97	10.20	11.53	12.00	9.80	11.46	8.90	7.51	9.37
3	7.16	7.18	7.31	8.58	8.29	9.53	10.94	11.40	8.99	10.84	7.82	6.86	8.73
4	6.54	6.22	6.55	7.42	6.81	8.48	9.93	10.20	8.12	9.74	6.92	5.91	7.72
5	5.69	5.54	5.75	6.52	5.77	7.34	8.60	9.13	6.94	8.21	5.66	5.53	6.72
6	4.50	4.72	4.32	5.37	4.36	5.78	6.70	7.52	5.94	6.52	4.14	4.30	5.34
7	3.32	3.67	3.33	4.39	3.24	4.72	5.03	6.13	4.36	4.97	3.23	3.28	4.14
8	2.71	2.97	2.84	3.70	2.73	3.67	3.85	5.07	3.54	3.90	2.74	2.73	3.37
9	2.36	2.64	2.47	3.06	2.27	3.09	3.12	4.19	2.79	3.41	2.59	2.43	2.86
10	2.04	2.31	2.17	2.66	2.05	2.73	2.66	3.64	2.54	3.01	2.23	2.22	2.52
11	1.77	2.19	1.93	2.48	1.76	2.40	2.41	3.27	2.22	2.64	2.12	1.95	2.26
12	1.67	2.01	1.74	2.27	1.57	2.05	2.18	2.95	2.01	2.32	1.86	1.77	2.03
Monthl: Means.	3.54	3.53	3.62	4.38	3.79	4.40	5.10	5.84	4.51	5.55	4.01	3.73	4.33

TABLE 5. Hourly, monthly and annual mean amount of cloud in 1887.

A sky free from cloud is represented by 0, entirely overcast by 10.

Hours of mean Batavia Time.	January.	February	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	6.5	7.7	7.5	5.8	6.4	4.9	4.0	3.5	6.5	4.7	6.5	7.5	5.96
2	6.7	7.8	7.4	5.9	6.3	5.1	3.9	3.6	6.4	4.4	6.6	6.9	5.92
3	6.5	7.9	7.3	6.0	6.1	4.7	3.0	3.3	6.0	4.5	6.6	6.5	5.70
4	6.6	7.6	6.5	5.7	5.8	4.6	2.4	3.4	5.4	4.2	5.8	6.3	5.36
5	6.9	7.8	6.8	6 0	5.6	4.5	2.6	3.9	5.6	4.5	6.8	7.3	5.69
6	7.1	8.6	7.4	6.3	6.4	5.7	3.8	5.3	6.6	5.3	7.3	7.7	6.46
7	7.1	8.2	6.7	5.6	6.5	5.9	3.2	4.7	7.2	4.3	7.4	6.9	6.14
8	6.2	8.0	6.3	5.3	6.1	5.2	2.2	3.9	5.6	3.9	6.6	6.5	5.48
9	6.4	7.6	5.7	5.4	5.7	4.7	1.9	3.3	5.2	4.2	6.5	6.3	5.24
10	6.7	7.5	6.2	5.2	6.0	4.9	2.6	3.7	6.2	4.8	7.0	6.5	5.61
11	7.4	7.9	6.7	6.0	6.4	5.4	3.4	4.9	6.4	5.6	7.5	7.2	6.23
12	7.3	8.2	7.6	7.2	6.7	6.0	4.1	5.8	6.7	6.0	7.7	7.5	6.73
1 p. m.	6.7	8.4	6.7	7.2	6.2	6.3	4.8	5.9	6.3	6.0	7.9	7.3	6.64
2	6.4	7.9	6.6	6.5	6.1	6.1	4.9	5.3	5.7	5.8	7.7	7.5	6.38
3	6.6	7.9	6.7	6.2	6.2	6.0	4.6	4.7	5.6	5.8	7.9	7.8	6.33
4	6.6	7.7	6.9	6.3	6.9	6.0	4.3	4.2	5.7	5.6	8.6	8.0	6.40
5	7.1	7.9	7.5	6.3	7.7	6.4	5.0	4.5	6.3	6.3	8.7	8.7	6.87
6	7.7	8.0	7.8	6.7	8.2	6.2	6.3	5.3	7.0	6.9	8.9	9.3	7.36
7	6.9	7.9	8.4	6.6	7.3	5.5	5.0	5.6	7.2	6.5	8.3	9.2	7.03
8	7.4	7.7	8.2	6.4	6.8	4.9	4.4	5.9	7.0	6.3	7.8	8.9	6.81
9	6.9	7.4	7.5	6.0	6.8	5.2	4.7	6.5	7.3	6.3	7.8	8.5	6.74
10	7.0	7.1	7.5	5.9	6.7	4.9	4.6	7.0	7.2	6.1	7.8	8.5	6.69
11	7.0	7.0	7.7	6.3	6.3	5.1	4.5	6.1	6.9	5.3	7.6	8.1	6.49
12	6.9	7.1	8.0	5.7	6.2	5.0	3.9	4.7	6.9	4.8	7.1	7.4	6.14
Monthly Means.	6.86	7.78	7.15	6.10	6.48	5.38	3.92	4.79	6.37	5.34	7.43	7.60	6.27

TABLE 6. Hourly, monthly and annual means of the recorded velocity of the wind for the year 1887.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.
1 a. m.	0.10	0.46	0.10	0.35	0.85	0.40	0.83	0.62	0.88	0.85	0.77	0.59	0.57
2	0.15	0.29	0.28	0.51	0.67	0.53	1.39	0.70	1.23	0.77	0.75	0.83	0.68
3	0.03	0.17	0.26	0.32	0 54	0.64	0.93	0 80	0.80	0.85	0.75	0.46	0.55
4	0.00	0.17	0.13	0.16	0.26	0.59	0.98	0.72	0.43	0.85	0.40	0.54	0.44
5	0.03	0.23	0.08	0.29	0.26	0.45	1.37	0.80	0.59	1.32	0.35	0.52	0.52
6	0.05	0.23	0.15	0.37	0.34	0.53	1.06	0.93	0.67	1.73	0.56	0.72	0.61
7	0.10	0.37	0.41	0.67	0.98	1.23	1.55	1.34	1.55	2.66	1.41	1.96	1.19
8	0.36	0.37	0.57	1.04	1.75	1.79	2.19	1.99	2.03	3.44	1.95	3.07	1.71
9	1.75	2.06	1.81	2.99	3.52	3.58	3.93	3.80	3.84	5.38	3.50	4.63	3.40
10	2.79	3.15	2.68	4.24	4.57	4.68	4.74	5.13	4.46	6.19	4.49	5.77	4.41
11	3.83	4.06	3.64	5.91	5.72	5.65	5.67	5.91	4.86	7.41	5.13	7.18	5.41
12	5.44	4.66	5.67	7.07	6.97	6.24	6.60	6.80	7.28	9.19	6.18	8.46	6.71
1 p. m.	7.21	5.85	6.72	7.03	9.15	7.13	8.69	8.88	9.99	11.38	7.93	9.72	8.31
2	7.48	6.63	6.95	7.43	10.14	7.94	9.85	12.04	12.19	12.05	8.94	10.04	9.31
3	7.32	5.50	6.49	7.04	9.59	8.41	11.56	12.59	11.63	11.60	7.99	9.37	9.09
4	5.67	4.03	4.39	5.37	7.55	7.16	10.89	11.34	9.94	9.86	6.50	7.24	7.50
5	3.28	2.23	2.76	3.55	4.99	4.76	7.73	8.54	6.91	6.55	4.89	4.86	5.09
6	1.11	1.31	1.16	1.60	2.55	2.54	3.49	3.70	3.53	3.25	3.26	3.46	2.58
7	0.46	0.83	0.59	0.91	1.70	1.57	2.04	1.60	2.35	2.07	2.24	2.76	1.59
8	0.10	0.60	0.41	0.69	1.39	1.15	1.29	0.72	1.97	1.47	1.76	2.53	1.17
9	0.10	0.20	0.23	0.35	1.19	0.83	1.10	0.65	1.44	1.29	1.33	1.96	0.89
10	0.21	0.20	0.21	0.48	1.22	0.80	1.10	0.88	1.36	1.14	1.45	1.24	0.86
11	0.28	0.29	0.31	0.43	0.93	0.75	1.24	0.83	1.02	0.98	1.04	0.95	0.75
12	0.13	0.23	0.15	0.56	0.80	0.61	1.14	0.83	0.96	1.08	0.72	0.70	0.66
Monthly Means.	2.00	1.84	1.92	2.47	3.23	2.92	3.81	3.84	3.83	4.31	3.10	3.73	3.08

TABLE 7. Hourly and monthly means of the four components of the wind in the year 1887.

Velocity in kilometers per hour.

Hours of mean Batavia Time.	January.				February.				March.			
	N	E	S	W	N	E	S	W	N	E	S	W
1 a. m.	0.04	—	0.02	0.07	0.13	0.01	0.09	0.36	0.04	0.06	0.02	0.01
2	0.01	0.02	0.09	0.08	0.02	—	0.01	0.28	0.13	0.09	0.09	0.06
3	0.01	—	—	0.02	0.03	—	0.04	0.15	0.16	0.08	—	0.08
4	—	—	—	—	0.09	—	0.01	0.13	0.06	—	—	0.09
5	—	—	0.02	0.01	0.05	—	—	0.21	—	—	0.02	0.07
6	—	0.02	0.04	0.01	0.07	—	—	0.21	—	0.02	0.06	0.11
7	0.03	0.05	0.04	0.01	0.03	—	0.04	0.35	0.08	0.07	0.13	0.23
8	0.15	0.04	0.11	0.14	0.07	—	0.08	0.31	0.08	0.16	0.25	0.23
9	0.92	0.17	0.29	0.89	0.81	0.13	0.19	1.47	0.47	0.47	0.38	0.93
10	1.93	0.19	0.15	1.23	1.51	0.20	0.25	2.09	0.47	0.88	0.32	1.47
11	2.88	0.43	0.11	1.29	2.16	0.33	0.22	2.49	0.81	0.97	0.60	1.86
12	4.57	0.95	—	1.27	3.25	0.24	0.10	2.35	2.93	1.75	0.58	1.99
1 p. m.	6.44	1.46	—	1.01	4.75	0.48	0.02	2.22	5.06	1.62	0.05	1.78
2	6.79	0.83	—	1.22	5.19	0.59	0.03	2.65	5.17	2.02	0.03	1.86
3	6.67	1.10	—	1.18	3.95	0.47	0.03	2 57	4.39	1.33	0.73	1.88
4	4.72	0.66	0.31	1.08	2.99	0.44	0.17	1.58	2.79	0.56	0.45	1.57
5	2.53	0.11	0.22	0.82	1.69	—	0.08	0.94	1.87	0.21	0.17	1.10
6	0.79	0.10	0.14	0.18	0.72	—	0.16	0.76	0.34	0.22	0.42	0.43
7	0.09	0.01	0.27	0.14	0.53	0.12	0.07	0.36	0.14	0.12	0.11	0.32
8	0.03	—	0.04	0.05	0.27	0.02	0.11	0.34	0.11	0.02	0.14	0.27
9	0.03	—	0.04	0.05	0.11	0.01	0.03	0.11	0.01	—	0.14	0.16
10	0.15	—	0.02	0.07	0.06	—	0.02	0.18	0.05	0.02	0.08	0.12
11	—	0.13	0.11	0.09	0.15	0.02	—	0.17	0.07	0.07	0.10	0.16
12	0.04	—	—	0.12	0.03	—	—	0.22	0.09	0.06	0.01	0.04
Monthly Means.	1.62	0.26	0.08	0.46	1.19	0.13	0.07	0.94	1.06	0.45	0.20	0 70

TABLE 7. Continued.

Hours of mean Batavia Time.	April.				May.				June.			
	N	E	S	W	N	E	S	W	N	E	S	W
1 a. m.	0.15	—	0.05	0.23	0.21	0.10	0.46	0.16	0.04	0.22	0.15	0.06
2	0.13	0.05	0.07	0.35	0.04	0.19	0.37	0.20	0.13	0.29	0.20	0.04
3	0.14	0.04	—	0.22	0.07	0.13	0.25	0.22	0.33	0.28	0.12	0.06
4	0.06	0.02	—	0.12	0.04	0.08	0.14	0.08	0.25	0.26	0.15	0.04
5	0.07	—	0.01	0.26	0.04	0.12	0.14	0.02	0.13	0.22	0.15	0.04
6	0.15	0.02	0.03	0,30	0.04	0.19	0.20	0.03	0.10	0.28	0.22	0.07
7	0.26	0.06	0.04	0.50	0.27	0.28	0.44	0.29	0.41	0.47	0.43	0.18
8	0.40	0.11	0.05	0.76	0.41	0.88	0.55	0.38	0.44	0.46	0.82	0.49
9	0.79	0.17	0.51	2.10	0.60	1.21	1.58	1.14	0.49	1.04	1.74	1.15
10	1.28	0.37	0.50	3.17	0.80	2.48	1.58	0.67	0.47	2.01	2.19	1.36
11	2.84	0.72	0.15	3.79	1.17	3.75	1.15	0.87	0.37	3.30	1.89	1.18
12	4.53	0.42	0.11	3.99	3.12	4.43	0.54	0.77	1.40	3.96	1.44	0.92
1 p. m.	4.52	0.56	0.04	3.58	5.89	4.75	0.64	0.49	2 18	4.13	1.63	1.20
2	4.68	1.35	0.38	3.46	6.94	5.68	0.19	0.68	4.51	4.41	0.21	0.59
3	4.07	0.68	0.02	3.39	6.89	4.04	0.36	0.81	5.89	4.12	0.24	0.73
4	3.14	0.48	0.36	2.56	4.80	2.80	0.97	0.91	4.30	3.22	0.35	0.54
5	1.91	0.43	0.08	1.74	2.03	1.41	1.26	1.42	2.59	2.53	0.37	0.30
6	0.87	0.14	0.11	0.84	0.72	0.88	1.14	0.62	0.85	1.44	0.46	0.34
7	0.34	0.08	0.13	0.60	0.61	0.54	0.59	0.50	0.37	0.75	0.60	0.16
8	0.31	0.04	0.04	0.48	0.40	0.49	0.46	0.45	0.34	0.47	0.44	0.09
9	0.10	—	0.06	0.26	0.45	0.30	0.51	0.16	0.27	0.34	0.26	0.17
10	0.23	0.07	0.02	0.31	0.14	0.27	0.77	0.39	0.33	0.31	0.17	0.23
11	0.14	0.02	0.04	0.36	0.12	0.15	0.59	0.25	0.25	0.24	0.28	0.16
12	0.17	0.02	0.05	0.45	0.15	0.17	0.39	0.24	0.28	0.25	0.11	0.11
Monthly Means.	1.30	0.24	0.12	1.41	1.50	1.47	0.64	0.49	1.11	1.46	0.61	0.43

TABLE 7. Continued.

	July.				August.				September.			
	N	E	S	W	N	E	S	W	N	E	S	W
1 a. m.	0.43	0.47	0.06	0.07	0.11	0.10	0.38	0.20	0.31	0.20	0.42	0.13
2	0.62	0.47	0.35	0.22	0.23	0.12	0.32	0.21	0.46	0.18	0.63	0.26
3	0.33	0.27	0.24	0.32	0.28	0.15	0.36	0.24	0.12	0.08	0.39	0.42
4	0.37	0.36	0.28	0.23	0.24	0.09	0.38	0.23	0.11	0.12	0.17	0.17
5	0.47	0.49	0.35	0.41	0.21	0.07	0.50	0.20	0.19	0.15	0.15	0.29
6	0.30	0.33	0.39	0.28	0.24	0.13	0.56	0.24	0.19	0.38	0.11	0.13
7	0.58	0.49	0.51	0.35	0.36	0.47	0.59	0.30	0.32	0.66	0.48	0.45
8	0.48	0.57	1.22	0.47	0.45	0.59	1.07	0.49	0.18	0.54	1.21	0.61
9	0.43	1.39	2.38	0.86	0.37	1.48	2.10	0.83	0.33	1.33	2.14	0.88
10	0.46	2.43	2.18	0.90	0.16	3.06	1.88	0.95	0.61	2.06	1.93	0.80
11	0.92	3.36	2.01	0.90	0.60	4.06	2.20	0.62	1.60	2.95	1.20	0.48
12	2.13	4.26	1.09	0.97	2.37	4.25	1.10	0.46	4.26	4.26	0.46	0.22
1 p. m.	4.59	5.35	0.56	0.13	5.15	5.01	0.59	0.36	7.75	4.52	0.13	0.20
2	7.65	5.10	0.13	—	8.82	6.59	0.14	—	10.14	5.70	—	—
3	9.15	6.19	—	0.10	10.07	6.50	—	—	9.51	4.73	0.32	0.40
4	7.74	6.29	0.06	0.26	8.78	5.87	0.02	0.24	8.37	3.68	0.08	0.38
5	5.33	3.83	0.26	0.54	5.87	4.81	—	0.29	5.44	2.63	0.08	0.32
6	1.59	1.92	0.25	0.63	2.15	2.07	0.31	0.13	1.96	1.01	0.62	0.90
7	0.55	1.04	0.35	0.57	0.68	0.75	0.32	0.33	0.80	0.50	0.69	1.04
8	0.27	0.60	0.41	0.29	0.22	0.34	0.14	0.18	0.54	0.54	0.85	0.77
9	0.34	0.55	0.41	0.04	0.25	0.28	0.08	0.18	0.31	0.37	0.73	0.44
10	0.39	0.63	0.22	0.07	0.18	0.27	0.47	0.23	0.21	0.41	0.74	0.35
11	0.52	0.61	0.22	0.14	0.15	0.38	0.29	0.21	0.22	0.23	0.63	0.17
12	0.36	0.65	0.17	0.15	0.08	0.15	0.59	0.26	0.25	0.34	0.50	0.12
	1.92	1.99	0.59	0.37	2.00	1.98	0.60	0.31	2.26	1.57	0.61	0.41

TABLE 7. Continued.

	October.				November.				December.			
	N	E	S	W	N	E	S	W	N	E	S	W
1 a. m.	0.29	0.17	0.35	0.33	0.08	0.12	0.50	0.33	0.30	—	0.04	0.46
2	0.25	0.15	0.26	0.34	0.14	0.24	0.40	0.23	0.28	0.10	0.11	0.57
3	0.10	0.23	0.36	0.38	0.23	0.09	0.31	0.32	0.19	0.02	0.03	0.35
4	0.10	0.06	0.58	0.38	0.11	0.11	0.13	0.19	0.16	0.02	0.11	0.42
5	0.13	0.28	0.85	0.45	0.06	0.04	0.16	0.22	0 11	0.04	0.12	0.39
6	0.32	0.55	0.88	0.57	0.09	0.04	0.24	0.37	0.11	0.06	0.32	0.42
7	0.60	0.71	1.35	0.84	0.14	0.18	0.61	0.90	0.51	0.17	0.69	1.00
8	0.16	1.08	2.14	0.93	0.13	0.13	1.04	1.08	0.75	0.12	1.15	1.81
9	0.14	2.60	3.07	1.09	0.24	0.39	1.86	1.91	0.93	0.58	1.04	3.13
10	0.11	4.21	2.37	0.78	0.59	0.77	2.15	2.10	2.54	1.10	0.80	2.96
11	1.01	4.85	3.02	0.46	1.93	1.27	1.41	1.80	4.13	1.90	0.08	3.19
12	3.15	6.35	0.90	0.29	3.90	1.29	0.63	1.82	5.11	2.47	0.07	3.29
1 p. m.	7.31	6.47	0.56	0.41	5.51	2.46	0.59	1.48	7.06	2.11	0.29	2.40
2	9.53	5.35	0.19	—	6.92	2.26	0.17	1.55	8.11	2.01	0.32	1.90
3	9.02	5.27	—	0.06	6.06	1.38	0.59	1.38	6.70	1.80	0.60	2.57
4	6.74	4.60	0.33	0.35	4.33	0.67	0.43	2.23	4.73	1.57	0.11	2.28
5	3.87	2.82	0.93	0.47	1.43	0.53	1.56	2.46	1.98	0.69	1.24	2.11
6	1.61	1.15	0.74	0.51	0.61	0.21	1.78	1.35	0.79	0.32	1.45	1.98
7	0.77	0.27	0.95	0.49	0.18	0.05	1.42	1.15	0.58	0.10	1.49	1.37
8	0.36	0.19	0.83	0.45	0.20	0.11	0.98	0.91	0.19	0.06	1.66	1.22
9	0.54	0.18	0.47	0 48	0.18	0.14	0.72	0.69	0.21	0.13	1.15	0.85
10	0.31	0.17	0.58	0.42	0.10	0.01	1.01	0.69	0.16	0.20	0.58	0.65
11	0.20	0.08	0.50	0.47	0.05	—	0.69	0.51	0.04	0.13	0.38	0.62
12	0.33	0.13	0.45	0.52	0.10	0.06	0.38	0.36	0.04	0.05	0.24	0.50
	1.96	2.00	0.94	0.48	1.39	0.52	0.82	1.08	1.90	0.66	0.59	1.52

TABLE 8. Daily means of the North and East components of the wind in 1887.

Velocity in kilometers per hour.

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E
1	1.96	— 0.66	0.80	— 0.42	1.12	0.61	0.58	— 1.83	1.50	0.81	2.04	1.15	0.86	1.26	2.14	3.13	1.82	0.94	— 1.35	— 0.36	1.05	0.87	0.04	— 2.19
2	2.85	— 1.08	1.35	— 0.63	0.87	— 0.22	0.36	— 2.46	1.15	0.06	0.48	— 0.40	0.33	0.77	1.01	1.17	2.29	2.84	— 0.64	— 2.04	— 0.74	— 0.43	— 1.12	— 1.98
3	2.50	— 1.62	0.39	— 0.99	0.73	— 0.76	1.06	— 3.16	1.60	0.07	1.38	— 2.05	0.31	4.13	2.03	2.37	1.27	— 0.25	— 0.29	0.81	— 0.63	0.56	0.89	1.39
4	1.76	— 0.25	1.01	— 1.65	1.02	— 0.57	1.19	— 3.17	1.67	1.20	1.24	— 0.52	0.57	1.73	2.53	4.38	0.28	— 0.09	0.12	— 0.28	0.52	— 0.05	1.37	0.89
5	1.22	— 0.48	1.64	— 1.95	0.99	— 0.98	0.27	— 0.54	2.15	0.23	0.63	— 0.76	1.26	— 0.78	0.72	4.62	1.77	— 0.05	1.36	— 0.41	0.15	— 1.03	2.98	— 0.28
6	0.87	— 0.44	0.82	— 2.24	0.30	— 0.46	2.08	— 0.32	1.08	2.38	1.47	1.89	0.68	1.06	1.06	4.29	1.93	1.24	2.54	0.30	— 1.93	— 0.61	1.66	0.39
7	2.41	0.98	0.52	— 0.98	0.93	— 0.38	1.14	0.01	1.70	0.34	0.73	1.43	— 0.12	1.93	1.76	— 0.79	2.75	— 0.04	3.07	3.71	— 0.43	0.04	1.55	— 0.15
8	2.52	— 0.12	0.15	— 0.38	— 0.29	0.03	1.10	— 1.29	1.54	0.82	0.97	— 0.50	1.61	0.61	2.31	— 0.88	2.79	1.13	1.29	6.47	0.23	— 0.11	0.69	— 0.33
9	2.22	— 0.95	1.08	— 0.99	0.76	0.93	2.59	— 1.11	0.77	— 1.28	0.61	— 0.43	2.45	— 1.17	— 0.49	— 1.42	2.44	2.11	0.06	5.43	0.99	0.13	0.74	1.88
10	2.47	— 0.80	1.00	— 0.65	1.59	— 0.01	1.85	— 0.31	1.64	0.55	— 1.32	— 0.69	2.44	1.72	1.11	1.88	2.27	2.19	2.52	2.46	0.74	0.66	— 0.15	3.52
11	2.01	0.72	0.77	— 1.19	1.52	1.59	1.12	— 1.11	1.67	0.73	— 0.13	0.24	1.95	1.90	0.65	1.53	2.40	3.08	1.05	2.40	1.85	— 0.04	0.79	— 0.96
12	0.98	0.15	2.51	— 1.91	2.07	2.34	0.63	— 0.06	— 0.64	0.50	1.41	0.83	1.77	1.79	0.06	0.41	1.32	1.97	1.94	1.75	— 0.92	1.07	1.30	0.48
13	1.06	0.01	1.94	— 1.73	1.17	0.79	0.60	0.02	1.28	1.42	1.23	— 0.39	2.40	2.52	— 0.41	0.65	1.03	4.10	0.57	2.58	1.49	— 0.28	1.51	— 0.07
14	1.16	— 0.11	0.63	— 0.79	1.35	0.48	1.22	— 0.03	2.00	1.73	1.47	1.68	0.74	1.06	2.38	1.54	2.17	1.91	0.43	1.47	1.70	— 0.43	0.30	0.80
15	1.39	0.24	3.12	— 1.13	1.04	— 0.19	0.91	— 1.12	0.76	2.15	2.05	— 0.22	2.95	1.07	0.31	0.60	2.70	1.34	2.27	1.41	2.10	— 0.45	1.41	1.24
16	0.15	— 0.22	2.05	— 0.84	1.35	1.93	1.48	— 1.95	0.88	0.37	— 1.03	— 1.39	1.42	0.55	— 0.36	5.03	1.24	0.93	1.59	1.33	1.20	— 1.04	0.36	1.53
17	1.42	— 0.49	0.75	— 0.78	0.42	1.08	0.78	— 3.09	1.63	2.08	— 0.13	— 1.56	2.80	2.15	1.41	1.53	— 0.39	1.45	— 0.03	3.14	— 0.46	— 2.72	1.63	1.46
18	2.08	0.00	0.36	— 0.94	0.64	— 0.29	1.07	— 4.18	— 0.40	1.97	— 0.63	1.84	0.07	1.84	1.86	1.95	2.00	0.66	— 0.56	4.72	0.02	— 0.71	3.33	— 0.96
19	2.35	0.25	0.82	— 1.77	0.48	0.73	1.78	— 3.89	— 1.04	3.70	— 0.67	5.48	1.42	4.38	1.20	2.08	1.08	— 0.36	2.57	1.65	0.38	1.63	2.26	— 0.90
20	2.38	0.50	0.48	— 1.39	1.97	0.81	1.01	— 3.58	— 0.90	1.83	— 0.41	3.94	1.17	4.13	1.72	1.83	1.06	0.89	1.94	2.41	0.68	0.63	1.38	— 1.03
21	1.27	— 0.29	0.45	— 1.07	1.63	— 1.00	2.07	— 1.42	— 0.33	0.35	— 1.26	2.14	1.56	2.30	3.01	1.69	2.17	2.05	1.76	0.99	1.82	— 0.49	0.74	— 3.12
22	1.20	— 0.24	0.67	— 0.24	1.03	— 1.36	0.58	— 0.78	— 0.76	1.68	— 1.45	2.95	1.60	0.58	1.55	0.41	2.15	0.92	0.49	1.29	2.56	— 0.92	0.69	— 1.26
23	1.47	0.09	1.24	0.34	0.01	— 0.85	1.24	— 1.57	— 0.56	5.38	1.01	1.46	2.26	0.98	1.65	0.68	0.65	1.48	0.69	1.27	1.16	— 1.56	1.41	0.28
24	2.09	1.09	1.66	1.01	— 0.01	— 0.78	0.71	— 0.66	2.04	1.73	0.57	2.64	2.31	1.98	2.43	1.63	0.20	— 0.08	1.97	1.36	0.84	0.45	1.91	— 1.29
25	1.30	0.89	1.51	0.20	2.04	1.08	0.90	— 1.68	1.54	— 0.74	— 0.40	1.93	1.87	5.23	2.28	— 0.43	1.03	— 0.08	0.95	1.50	1.28	0.54	1.49	— 3.78
26	1.35	0.15	1.42	0.10	0.33	— 1.90	2.62	1.44	2.01	0.97	0.32	2.86	— 0.43	5.24	1.43	1.18	1.79	1.52	0.55	1.10	— 0.41	— 4.57	1.56	— 2.89
27	1.32	— 0.71	1.13	— 0.29	1.04	— 1.27	1.70	0.62	0.84	— 2.14	0.86	1.74	1.19	— 0.13	2.60	1.87	2.00	— 0.18	1.01	2.30	0.62	— 2.44	1.76	— 3.04
28	0.57	— 0.98	1.14	0.65	0.65	0.21	1.45	1.55	0.05	— 1.74	1.63	2.59	1.25	1.81	2.55	4.34	1.94	1.30	2.06	1.00	0.78	— 1.47	3.58	— 4.08
29	0.36	— 0.52			— 0.50	— 1.76	0.98	— 0.08	— 0.16	0.26	0.76	3.21	0.72	— 0.10	1.11	1.43	2.38	0.62	0.82	0.33	— 0.18	— 1.45	1.98	— 3.50
30	0.73	0.01			0.42	— 2.66	0.49	0.77	0.10	1.21	1.73	— 0.14	0.67	— 1.20	0.82	2.58	0.89	1.00	0.66	— 0.51	0.49	0.21	2.25	— 3.72
31	0.12	— 1.31			0.47	— 2.76			1.93	1.82			1.14	0.78	0.98	0.64			— 0.07	— 0.89			0.58	— 4.11
Means.	1.53	— 0.22	1.12	— 0.81	0.88	— 0.25	1.19	— 1.17	0.86	0.98	0.51	1.03	1.33	1.62	1.40	1.67	1.65	1.15	1.01	1.52	0.57	— 0.56	1.32	— 0.86

TABLE 9. Mean Electrical Potential of the Atmosphere in 1887.

In Volts.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	7.8	4.8	26.0	17.6	15.7	15.9	10.0	7.6	10.3	10.7	13.1	13.3	12.73
2	7.5	3.7	26.2	17.3	15.4	15.8	8.3	7.4	9.0	10.2	12.0	12.1	12.08
3	8.3	3.7	24.2	15.9	15.5	15.5	8.6	7.2	7.8	9.5	11.3	12.4	11.66
4	7.6	3.2	21.4	17.3	15.6	15.8	9.2	7.3	8.4	8.8	10.9	12.7	11.52
5	7.3	3.9	21.3	18.0	17.3	14.4	8.9	7.2	8.0	9.8	10.6	12.0	11.56
6	9.3	4.8	23.4	21.5	19.3	14.5	9.1	6.8	9.1	8.2	14.0	12.5	12.71
7	9.5	5.7	24.5	26.9	21.0	17.2	13.5	7.6	12.7	9.3	16.0	14.2	14.84
8	6.8	3.7	18.1	19.7	15.0	13.1	9.2	6.8	7.9	4.8	8.9	8.5	10.21
9	4.6	3.0	14.9	13.8	10.6	10.3	7.6	4.4	4.4	4.5	5.3	5.9	7.44
10	3.0	2.1	10.0	9.3	7.3	7.0	3.6	2.5	2.9	3.2	3.9	3.9	4.89
11	2.8	2.5	7.3	6.0	5.3	5.3	2.7	1.7	2.8	2.7	2.9	3.8	3.82
12	2.6	2.1	5.5	5.7	4.9	4.7	3.2	1.7	2.9	1.9	3.8	4.0	3.58
1 p. m.	2.2	1.5	9.5	5.4	4.4	4.6	3.0	0.8	2.2	2.2	4.5	3.2	3.63
2	3.5	1.7	8.2	7.8	5.6	3.4	3.2	0.1	3.2	— 0.1	2.5	4.9	3.67
3	2.3	1.7	7.5	4.6	3.7	3.6	2.6	— 1.7	3.6	1.1	6.8	5.5	3.44
4	2.9	— 0.2	11.3	3.8	7.5	4.7	0.4	— 0.9	3.8	2.1	9.4	7.4	4.35
5	3.9	1.4	12.9	8.8	13.5	6.9	5.8	1.7	6.6	5.7	12.1	10.5	7.48
9	5.5	3.9	14.4	12.9	13.7	11.1	6.8	3.7	8.9	4.6	11.3	12.5	9.11
7	6.4	3.7	24.9	17.5	13.9	14.8	10.5	5.1	8.9	7.0	12.8	12.3	11.48
8	7.1	3.7	23.7	19.1	13.4	14.8	12.0	7.6	7.8	10.1	11.5	11.2	11.83
9	7.7	4.9	22.0	20.4	16.8	14.8	12.0	7.8	11.4	13.1	12.8	12.9	13.05
10	8.1	5.9	22.3	20.0	15.7	14.7	11.8	8.8	10.3	11.9	12.5	13.0	12.92
11	7.0	5.3	23.1	19.5	18.0	16.1	9.7	8.1	9.4	12.3	13.8	13.5	12.98
12	9.0	5.9	23.0	19.1	17.2	17.3	9.9	7.9	10.6	11.0	12.5	12.9	13.03
Monthly Means.	5.95	3.44	17.73	14.50	12.76	11.51	7.57	4.88	7.20	6.86	9.80	9.80	9.33

TABLE 9A. Mean Electrical Potential of the Atmosphere, on Non-Rainy Hours in 1887.

In Volts.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	8.4	5.5	26.6	17.6	15.9	16.1	10.0	7.6	10.3	10.7	13.4	13.1	12.93
2	8.5	5.5	26.2	17.3	15.4	15.8	9.2	7.4	9.0	10.2	11.9	12.7	12.43
3	8.6	5.4	24.2	15.9	15.5	15.5	8.9	7.2	9.2	9.5	11.2	12.8	11.99
4	7.9	4.6	23.4	17.6	15.4	15.8	9.3	7.3	8.6	8.8	10.6	13.0	11.86
5	7.3	4.8	22.0	18.1	17.3	14.4	8.9	7.2	8.9	9.8	10.6	12.1	11.78
6	9.3	6.1	24.6	21.5	19.3	15.1	9.1	6.8	9.2	8.2	14.7	12.5	13.03
7	9.5	6.5	27.3	26.9	21.8	17.5	13.5	7.6	12.7	9.3	15.6	14.2	15.20
8	6.7	4.0	19.9	19.7	15.0	12.9	9.2	6.8	7.9	4.6	8.9	8.7	10.36
9	4.6	2.9	14.5	13.8	10.6	10.3	7.6	4.4	4.4	4.5	5.3	6.0	7.41
10	3.1	2.1	10.0	9.3	7.3	7.0	3.6	2.5	2.9	3.2	3.9	4.3	4.93
11	2.7	2.5	7.3	6.0	5.3	5.3	2.7	1.7	2.8	2.7	3.1	3.9	3.83
12	2.2	2.1	6.1	5.7	4.9	4.8	3.2	1.7	2.9	2.1	3.8	4.0	3.63
1 p. m.	2.2	2.3	8.8	5.4	4.4	4.6	3.0	0.8	2.2	2.2	4.5	3.7	3.68
2	3.5	2.1	6.9	6.9	5.7	4.1	3.2	0.1	3.2	— 0.3	2.3	5.0	3.56
3	2.5	1.9	7.5	2.5	3.7	4.3	2.6	— 1.7	3.6	1.1	6.0	5.6	3.30
4	2.9	0.1	11.4	3.8	6.7	4.7	1.1	— 0.9	3.8	1.1	9.4	5.7	4.15
5	4.8	1.7	12.8	7.9	12.5	6.8	5.9	1.7	5.5	5.9	12.2	10.1	7.32
6	6.8	4.5	14.2	13.2	15.7	11.1	6.6	3.7	9.2	4.6	11.4	14.1	9.59
7	6.4	5.3	24.1	18.3	15.3	14.9	10.5	5.1	9.0	5.9	13.1	13.1	11.75
8	7.3	6.0	24.1	20.5	14.8	14.8	11.4	7.6	10.0	10.1	11.3	11.4	12.44
9	8.5	5.8	23.1	20.4	17.3	14.8	12.0	8.3	12.2	13.1	13.9	13.8	13.60
10	8.4	6.7	22.4	20.4	16.3	14.7	12.2	8.8	11.3	12.5	12.9	12.9	13.29
11	7.9	7.2	23.7	19.8	17.7	16.1	9.8	8.8	11.0	12.5	13.9	13.5	13.49
12	9.2	7.1	24.5	19.5	17.5	17.3	9.9	7.9	11.2	11.0	12.5	13.3	13.41
Monthly Means.	6.22	4.28	18.15	14.50	12.97	11.61	7.64	4.93	7.54	6.80	9.85	9.98	9.54

TABLE 10. Absolute maxima and minima in 1887.

	Barometric pressure in millimeters.		Temperatur of the air in centesimal degrees.		Relative humidity of the air. Saturation = 1000.		Tension of the atmospheric vapour in millimeters.		Velocity of the wind. k. p. h.
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Maximum.
January . . .	760.79	753.49	30.7	21.3	1000	629	23.30	18.37	13.7
February. . .	762.10	754.17	30.6	20.7	991	577	23.12	17.54	16.9
March	760.76	755.31	31.1	22.2	982	568	24.08	18.03	15.3
April.	761.80	754.16	31.9	22.0	974	553	23.70	18.33	15.3
May	761.38	755.54	30.9	22.2	974	612	23.57	18.32	16.1
June	761.06	755.41	30.9	21.2	973	482	23.40	15.83	14.5
July	761.85	755.80	30.7	19.9	982	417	23.04	12.86	18.5
August. . . .	762.74	755.92	31.4	21.1	964	489	21.91	15.33	19.3
September. .	762.80	755.63	30.9	21.0	973	504	22.97	16.65	20.1
October. . . .	761.78	755.46	32.2	21.4	973	371	23.67	12.06	22.5
November . .	760.90	755.70	31.3	22.4	991	583	23.92	18.28	17.7
December . .	760.99	754.36	31.2	22.1	973	561	23.99	17.83	17.7
Year	762.80	753.49	32.2	19.9	1000	371	24.08	12.06	22.5

TABLE 11. Maxima and minima of daily means in 1887.

	Barometric pressure in millimetres.		Temperature of the air. Centesimal degrees.		Relative humidity of the air. Saturation = 1000.		Tension of the atmospheric vapour in millimetres.		Velocity of the wind in k. p. h.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
January . . .	759.62	755.57	26.45	24.15	936	816	21.86	20.11	3.28	0.27
February. . .	760.60	756.13	26.68	24.02	938	769	21.38	19.66	3.52	0.47
March	759.34	757.18	26.83	24.36	947	759	21.81	19.30	3.56	0.37
April.	760.14	755.88	27.10	24.62	923	759	21.80	19.77	4.63	1.07
May	759.99	757.28	26.92	24.73	922	801	21.65	20.04	6.07	1.40
June	759.65	757.11	26.35	24.36	888	774	21.07	18.45	5.68	1.03
July	760.65	757.53	26.72	23.91	893	715	21.15	15.96	6.60	0.90
August. . . .	761.03	757.40	26.63	24.91	840	709	20.20	17.33	5.67	1.00
September. .	761.27	757.63	26.71	24.37	908	772	21.35	19.01	5.75	1.60
October . . .	760.52	757.52	27.58	24.86	854	662	21.28	15.78	7.37	2.71
November . .	759.53	757.87	26.58	24.40	926	789	21.44	19.81	5.86	0.87
December . .	760.00	756.36	26.22	23.71	885	778	21.88	19.29	6.07	1.97
Year	761.27	755.57	27.58	23.71	947	662	21.88	15.78	7.37	0.27

TABLE 12. Maxima and minima of daily oscillation or range in 1887.

	Barometric pressure in millimetres.		Temperature of the air. Centesimal degrees.		Relative humidity of the air. Saturation = 1000.		Tension of the atmospheric vapour in millimetres.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
January . . .	4.38	2.34	7.1	2.8	330	128	4.73	1.33
February. . .	4.44	2.27	7.5	3.3	370	110	4.02	1.81
March	3.79	2.43	8.6	3.1	357	104	4.01	1.91
April.	4.28	2.45	8.8	5.2	404	219	4.83	1.30
May	3.96	2.11	7.7	4.2	362	200	4.72	1.42
June	3.78	1.93	9.2	3.0	458	179	5.56	1.54
July	3.73	2.41	9.3	4.6	472	230	5.44	1.74
August . . .	3.82	2.19	9.2	6.3	419	279	4.26	1.94
September. .	3.94	2.61	9.2	4.9	443	203	4.66	1.13
October . . .	4.38	2.78	10.2	5.5	487	266	6.42	2.16
November . .	4.11	2.31	8.6	4.2	372	171	4.38	1.29
December . .	4.14	2.14	8.2	3.6	404	146	4.80	1.31
Year.	4.38	1.93	10.2	2.8	487	104	6.42	1.13

TABLE 13. Mean daily oscillation or range in 1887.

	Barometric pressure in millimetres.	Temperature of the air. Centesimal degrees.	Relative humidity of the air. Saturation = 1000.	Tension of the atmospheric vapour in millimetres.
January	3.27	5.6	253	2.54
February	3.13	5.4	245	2.92
March	3.22	6.1	275	2.89
April	3.16	6.6	290	2.77
May	2.97	6.3	275	2.60
June	2.86	7.0	310	3.17
July	2.98	7.6	351	3.21
August	3.07	7.5	344	2.94
September	3.31	6.6	312	2,83
October	3.37	7.9	352	3.70
November	3.10	6.4	289	2.49
December	3.05	6.2	274	2.43
Year	3.12	6.6	298	2.87

TABLE 14. Deviation of the mean monthly and annual values in 1887 from the average values for the years 1866—1887.

	Barometric pressure in millimetres.	Temperature of the air in centesimal degrees.	Relative humidity. Saturation = 1000.	Tension of atmospheric vapour in millimetres.	Cloudiness.
January	— 1.19	0.33	— 15	0.00	— 0.50
February	— 0.41	0.03	— 21	— 0.50	0.36
March	— 0.52	— 0.13	— 4	— 0.32	0.40
April	— 0.29	— 0.19	— 18	— 0.76	0.25
May	0.24	— 0.55	13	— 0.40	1.19
June	— 0.31	— 0.50	— 07	— 0.83	0.07
July	0.20	— 0.28	— 11	— 0.61	— 0.56
August	— 0.25	— 0.02	— 5	— 0.15	0.67
September	0.17	— 0.47	45	0.62	1.49
October	0.00	— 0.26	— 5	— 0.45	— 0.30
November	0.06	— 0.42	18	— 0.03	0.53
December	— 0.25	— 0.10	0	— 0.11	0.34
Year	— 0.22	— 0.19	— 1	— 0.29	0.33

N. B. The average values of the cloudiness have been deduced from the eight-yearly series 1880—1887.

RESULTS OF MAGNETICAL OBSERVATIONS.

TABLE 15. Values of the Zero-line in absolute measure.

1887.	Adie's Magnetograph.			Wild's Magnetometers.		
	Easterly Declination.	Horizontal Force. in c. g. s.	Vertical Force. in c. g. s.	Easterly Declination.	Horizontal Force. in c. g. s.	Vertical Force. in c. g. s.
January	1° — 5′.40	0.36860	0.19672	1° — 54′.28	0.37106	0.19986
February	1° — 5′.91	0.36868	0.19635	1° — 54′.79	0.37150	0.20023
March	1° — 5′.90	0.36882	0.19601	1° — 54′.59	0.37210	0.20056
April	1° — 5′.52	0.36894	0.19846 R	1° — 53′.94	0.37121 R	0.20103
May	1° — 5′.62	0.36898	0.19825	1° — 53′.98	0.37169	0.20081
June	1° — 5′.64	0.36900	0.19805	1° — 53′.77	0.37134 R	0.19927 R
July	1° — 5′.65	0.36668 R	0.19805	1° — 53′.76	0.37192	0.19997
August	1° — 6′.05	0.36676	0.19787	1° — 53′.92	0.37248	0.20000
September	1° — 5′.63	0.36680	0.19753	1° — 53′.86	0.37136 R	0.19987
October	1° — 5′.55	0.36696	0.19750	1° — 53′.82	0.37193	0.20030
November	1° — 5′.51	0.36701	0.19758	1° — 53′.78	0.37234	0.20063
December	1° — 5′.61	0.36707	0.19740	1° — 54′.17 R	0.37124 R	0.20060

N. B. The letter R denotes that the instrument has been readjusted.

TABLE 16. Monthly means in absolute measure.

Minutes of arc and c. g. s. unity.

1887.	E. Declination. 1°40′00 +	Horizontal Force. 0.36900 +	Vertical Force. 0.19700 +	Total Force. 0.41800 +	S. Inclination. 28° +
January	10′.43	191.4	265.3	323.4	17′.55
February	10.73	188.4	278.8	327.2	18.63
March	10.60	192.4	292.3	337.1	19.45
April	10.09	186.8	312.9	342.0	21.14
May	10.06	182.9	311.8	338.0	21.21
June	9.87	186.9	295.7	333.8	19.91
July	9.61	199.1	320.3	356.3	21.20
August	9.87	191.5	322.3	350.6	21.64
September	9.30	185.3	316.8	342.5	21.48
October	8.98	194.0	326.8	354.5	21.86
November	8.86	196.5	328.3	357.8	21.87
December	8.79	191.3	328.6	353.4	22.09
Year	9.77	190.5	308.3	343.1	20.67

TABLE 17. Mean diurnal variation of Easterly Declination for each month of the year 1887.

Uncorrected for disturbances; minutes of arc.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 0.18	— 0.13	— 0.08	0.01	0.03	— 0.05	— 0.13	— 0.22	— 0.16	0.02	— 0.13	— 0.16	— 0.10
2	— 0.11	— 0.09	— 0.09	0.16	0.28	0.14	0.19	— 0.12	— 0.05	0.03	0.01	— 0.18	0.01
3	— 0.29	— 0.22	— 0.24	0.16	0.31	0.15	0.13	0.00	— 0.02	0.03	— 0.14	— 0.28	— 0.04
4	— 0.33	— 0.20	— 0.30	0.16	0.38	0.31	0.24	0.05	0.13	— 0.02	— 0.26	— 0.44	— 0.03
5	— 0.54	— 0.47	— 0.50	— 0.01	0.30	0.25	0.39	0.33	0.46	— 0.12	— 0.54	— 0.65	— 0.10
6	— 0.78	— 0.79	— 0.76	0.06	0.59	0.54	0.59	0.76	1.02	— 0.23	— 1.25	— 1.41	— 0.14
7	— 1.38	— 1.87	— 1.61	— 0.43	0.73	1.06	1.10	1.46	1.09	— 1.32	— 2.02	— 2.18	— 0.45
8	— 1.45	— 2.44	— 2.24	— 1.27	— 0.02	0.54	0.58	0.61	— 0.36	— 2.23	— 2.35	— 2.21	— 1.07
9	— 1.32	— 2.16	— 1.92	— 1.57	— 0.82	— 0.16	— 0.24	— 0.37	— 1.40	— 2.44	— 2.07	— 1.80	— 1.36
10	— 1.10	— 1.31	— 0.89	— 1.03	— 1.05	— 0.57	— 0.67	— 1.02	— 1.77	— 2.14	— 1.34	— 0.89	— 1.15
11	— 0.95	— 0.22	0.40	— 0.19	— 1.16	— 0.82	— 0.91	— 1.26	— 1.58	— 1.05	— 0.07	0.06	— 0.65
12	— 0.17	0.91	1.46	0.35	— 0.87	— 0.77	— 0.64	— 1.16	— 1.20	0.32	1.19	0.92	0.02
1 p. m.	0.60	1.39	1.75	0.53	— 0.46	— 0.42	— 0.50	— 0.82	— 0.52	1.38	1.87	1.56	0.53
2	1.10	1.71	1.56	0.76	0.27	0.00	— 0.10	— 0.39	0.20	1.75	1.94	1.70	0.87
3	1.27	1.53	1.18	0.96	0.73	0.41	0.34	0.54	1.01	1.77	1.69	1.63	1.08
4	1.38	1.24	0.78	0.97	1.11	0.47	0.64	1.21	1.20	1.41	1.30	1.45	1.09
5	1.19	0.88	0.48	0.56	0.78	0.32	0.50	1.20	1.05	1.07	1.09	1.10	0.85
6	0.88	0.80	0.38	0.33	0.09	— 0.05	0.02	0.41	0.64	0.72	0.71	0.70	0.47
7	0.71	0.63	0.29	0.02	— 0.09	— 0.12	— 0.22	0.11	0.39	0.52	0.40	0.61	0.27
8	0.61	0.36	0.15	— 0.06	— 0.15	— 0.22	— 0.18	— 0.10	0.24	0.28	0.15	0.38	0.12
9	0.48	0.23	0.12	— 0.19	— 0.32	— 0.29	— 0.34	— 0.15	0.03	0.13	0.05	0.31	0.00
10	0.39	0.17	0.04	— 0.13	— 0.31	— 0.32	— 0.37	— 0.40	— 0.09	0.01	— 0.06	0.09	— 0.09
11	0.06	0.01	— 0.06	— 0.13	— 0.24	— 0.27	— 0.34	— 0.34	— 0.11	0.01	— 0.10	— 0.03	— 0.13
12	0.03	— 0.03	0.04	0.00	— 0.05	— 0.13	— 0.17	— 0.32	— 0.22	0.01	— 0.08	— 0.20	— 0.10
Total amount of variation.	17.30	19.79	17.32	10.04	11.14	8.38	9.53	13.35	14.94	19.01	20.81	20.94	10.72

TABLE 18. Mean diurnal variation of Horizontal Force for each month of the year 1887.

Uncorrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 8.3	— 7.5	— 11.0	— 7.2	— 7.2	— 8.9	— 9.2	— 10.5	— 9.5	— 9.2	— 8.4	— 5.8	— 8.5
2	— 6.4	— 5.5	— 9.7	— 5.0	— 5.7	— 7.9	— 7.1	— 8.2	— 6.5	— 8.6	— 4.4	— 7.2	— 6.8
3	— 5.4	— 4.0	— 7.8	— 4.0	— 4.0	— 5.1	— 5.7	— 6.0	— 3.9	— 8.6	— 5.3	— 6.8	— 5.5
4	— 5.2	— 4.0	— 6.9	— 1.7	— 2.0	— 5.1	— 4.3	— 2.9	— 1.8	— 5.6	— 4.3	— 4.9	— 4.0
5	— 4.0	— 1.8	— 4.3	0.9	1.6	— 2.2	— 2.1	— 0.2	— 1.6	— 4.1	— 2.7	— 2.9	— 1.9
6	— 1.3	— 1.6	— 2.9	2.2	4.1	1.8	1.3	3.3	2.6	— 1.9	0.4	1.1	0.8
7	3.8	2.9	2.3	6.9	10.6	8.5	9.4	13.8	11.4	7.7	4.3	6.7	7.4
8	8.8	8.6	14.1	14.3	16.4	14.5	17.2	22.1	20.0	14.7	15.2	12.2	14.9
9	15.9	16.3	26.6	22.3	23.0	19.6	24.2	29.0	26.6	23.0	21.2	17.6	22.1
10	24.7	22.7	33.0	30.7	25.8	24.8	28.0	33.9	31.1	29.1	25.1	21.5	27.6
11	29.1	29.0	33.9	32.9	27.0	25.4	27.1	30.3	33.3	31.2	23.5	22.4	28.8
12	23.5	23.4	28.6	25.9	18.4	20.9	21.4	22.3	28.7	29.6	18.4	19.1	23.4
1 p. m.	15.5	17.6	19.0	12.8	10.4	13.1	15.5	10.7	15.8	18.6	11.7	11.6	14.4
2	6.5	8.3	4.9	0.5	0.7	5.3	4.8	2.6	2.3	5.7	3.9	3.5	4.1
3	— 0.9	— 2.0	— 3.6	— 5.9	— 6.3	— 0.8	— 3.8	— 7.7	— 9.8	— 4.0	— 2.2	— 3.5	— 4.2
4	— 7.9	— 9.0	— 8.8	— 12.2	— 13.1	— 6.1	— 12.1	— 14.6	— 14.4	— 10.8	— 7.2	— 6.9	— 10.2
5	— 9.4	— 9.8	— 10.6	— 12.7	— 13.9	— 9.9	— 13.8	— 18.7	— 16.8	— 11.2	— 12.5	— 8.7	— 12.3
6	— 11.3	— 12.3	— 13.9	— 14.4	— 13.4	— 11.1	— 14.5	— 15.9	— 16.8	— 13.6	— 13.6	— 8.2	— 13.2
7	— 11.0	— 14.3	— 14.4	— 14.0	— 13.1	— 13.2	— 12.2	— 13.9	— 18.2	— 15.2	— 10.9	— 9.0	— 13.2
8	— 11.5	— 13.3	— 14.5	— 16.4	— 13.7	— 14.5	— 14.4	— 14.4	— 18.0	— 16.6	— 12.5	— 9.2	— 14.0
9	— 13.3	— 11.7	— 15.0	— 16.0	— 13.0	— 14.1	— 13.8	— 14.3	— 15.5	— 16.6	— 10.2	— 12.0	— 13.8
10	— 13.3	— 11.8	— 14.2	— 15.5	— 12.3	— 12.8	— 12.2	— 11.3	— 15.0	— 11.9	— 12.2	— 12.8	— 12.9
11	— 9.1	— 11.3	— 12.5	— 14.2	— 11.0	— 11.4	— 12.0	— 14.5	— 13.1	— 11.6	— 9.5	— 11.5	— 11.8
12	— 8.9	— 9.8	— 13.4	— 11.1	— 9.9	— 10.2	— 11.8	— 14.4	— 10.7	— 11.2	— 7.2	— 6.1	— 10.4
Total amount of variation.	255.0	258.5	325.9	299.7	276.6	267.2	297.9	335.5	343.4	320.3	246.8	231.2	286.2

TABLE 19. Mean diurnal variation of Vertical Force for each month of the year 1887.

Uncorrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	4.7	5.5	7.0	2.5	1.7	2.6	2.3	2.0	2.1	4.9	3.8	2.7	3.5
2	3.1	4.0	6.2	1.1	0.5	1.4	0.8	0.3	0.5	4.7	1.4	3.2	2.3
3	2.4	2.8	5.1	1.4	0.1	— 0.1	— 0.2	— 1.2	— 1.5	4.0	1.9	2.3	1.4
4	2.4	3.2	4.8	0.7	— 0.4	0.3	— 0.9	— 2.9	— 1.9	2.9	1.9	1.3	1.0
5	1.5	2.3	3.5	0.2	— 1.2	— 0.5	— 1.2	— 4.2	— 2.1	2.0	1.7	0.7	0.3
6	1.7	4.1	4.7	— 0.4	— 4.2	— 4.2	— 4.3	— 8.2	— 6.7	1.9	3.4	2.7	— 0.8
7	1.1	5.6	5.0	1.2	— 4.4	— 7.8	— 8.7	— 10.5	— 4.4	4.8	4.7	1.8	— 0.9
8	— 2.9	— 0.6	— 3.0	— 2.5	— 3.8	— 7.5	— 9.5	— 7.6	— 1.2	3.0	— 0.4	— 0.3	— 3.0
9	— 8.0	— 11.0	— 18.0	— 12.4	— 6.3	— 8.3	— 11.1	— 5.5	— 5.1	— 6.0	— 6.9	— 6.0	— 8.7
10	— 13.2	— 20.9	— 31.0	— 23.7	— 9.6	— 10.6	— 12.9	— 6.9	— 10.4	— 16.4	— 14.6	— 12.4	— 15.2
11	— 18.4	— 29.5	— 35.7	— 27.9	— 11.1	— 10.2	— 12.9	— 6.7	— 14.1	— 25.3	— 20.2	— 15.6	— 18.9
12	— 19.9	— 26.0	— 31.3	— 22.1	— 9.6	— 10.8	— 10.7	— 5.7	— 12.8	— 28.8	— 19.3	— 17.0	— 17.8
1 p. m.	— 17.3	— 18.3	— 18.3	— 10.4	— 9.6	— 8.7	— 6.8	— 1.8	— 7.2	— 21.4	— 13.1	— 11.7	— 12.0
2	— 11.3	— 10.4	— 4.2	— 3.2	— 7.5	— 6.8	— 3.7	— 1.8	— 3.5	— 12.0	— 6.5	— 5.8	— 6.4
3	— 2.8	— 0.4	5.4	1.6	— 4.4	— 3.3	0.3	— 1.8	0.5	— 2.1	— 0.9	— 0.9	— 0.7
4	3.3	7.4	10.8	7.5	1.4	2.5	5.1	0.9	3.2	6.1	4.0	1.8	4.5
5	7.2	8.3	12.0	10.4	8.0	8.5	10.1	6.6	8.3	7.9	8.4	5.5	8.5
6	9.0	9.1	11.9	12.8	11.7	11.4	13.3	10.6	10.0	10.5	9.5	6.4	10.5
7	9.1	11.6	12.5	12.0	10.4	11.3	10.7	8.9	10.6	11.9	7.8	6.7	10.3
8	9.4	11.9	11.5	13.5	10.5	11.4	10.7	8.4	10.0	12.6	8.2	6.7	10.4
9	11.1	10.7	11.8	12.4	9.6	10.1	9.7	7.3	8.6	12.1	7.0	7.9	9.9
10	10.8	10.6	11.2	11.1	8.4	8.5	8.2	6.4	7.0	9.0	7.5	8.5	9.0
11	8.5	10.7	9.8	8.7	6.4	6.0	6.7	7.0	5.5	7.4	6.0	7.5	7.5
12	8.3	8.6	9.4	5.7	4.3	4.4	5.2	5.5	3.8	6.6	3.5	3.4	5.8
Total amount of variation.	187.4	233.5	284.1	205.4	145.1	157.2	166.0	128.7	141.0	224.3	162.6	138.8	169.3

TABLE 20. Mean diurnal variation of Southerly Inclination for each month of the year 1887.

Uncorrected for disturbances; minutes of arc.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	0.66	0.69	0.93	0.46	0.41	0.53	0.52	0.55	0.52	0.71	0.60	0.42	0.58
2	0.47	0.50	0.82	0.27	0.26	0.40	0.33	0.33	0.29	0.67	0.27	0.51	0.43
3	0.38	0.36	0.67	0.26	0.17	0.19	0.20	0.14	0.04	0.62	0.34	0.43	0.31
4	0.37	0.39	0.61	0.12	0.05	0.22	0.10	— 0.10	— 0.07	0.43	0.30	0.29	0.23
5	0.26	0.24	0.41	— 0.02	— 0.14	0.05	— 0.01	— 0.30	— 0.09	0.30	0.23	0.17	0.09
6	0.17	0.36	0.45	— 0.11	— 0.46	— 0.37	— 0.36	— 0.72	— 0.58	0.21	0.23	0.16	— 0.09
7	— 0.07	0.29	0.27	— 0.18	— 0.72	— 0.90	— 0.99	— 1.29	— 0.76	0.05	0.17	— 0.12	— 0.35
8	— 0.55	— 0.37	— 0.76	— 0.73	— 0.90	— 1.10	— 1.35	— 1.41	— 0.86	— 0.35	— 0.62	— 0.49	— 0.79
9	— 1.19	— 1.42	— 2.32	— 1.75	— 1.34	— 1.37	— 1.74	— 1.52	— 1.40	— 1.32	— 1.31	— 1.11	— 1.48
10	— 1.91	— 2.38	— 3.51	— 2.89	— 1.68	— 1.72	— 2.01	— 1.81	— 1.95	— 2.30	— 2.02	— 1.72	— 2.16
11	— 2.45	— 3.24	— 3.88	— 3.27	— 1.84	— 1.72	— 1.98	— 1.66	— 2.30	— 3.02	— 2.36	— 1.98	— 2.47
12	— 2.34	— 2.77	— 3.36	— 2.59	— 1.40	— 1.59	— 1.60	— 1.28	— 2.03	— 3.21	— 2.10	— 1.95	— 2.19
1 p. m.	— 1.85	— 1.99	— 2.05	— 1.24	— 1.09	— 1.14	— 1.09	— 0.55	— 1.13	— 2.25	— 1.39	— 1.28	— 1.42
2	— 1.07	— 1.07	— 0.50	— 0.25	— 0.56	— 0.70	— 0.45	— 0.23	— 0.34	— 1.08	— 0.62	— 0.55	— 0.62
3	— 0.17	0.05	0.52	0.35	— 0.07	— 0.21	0.17	0.16	0.42	0.01	0.02	0.08	0.11
4	0.54	0.88	1.11	1.01	0.61	0.41	0.83	0.62	0.79	0.86	0.57	0.40	0.72
5	0.88	0.97	1.27	1.24	1.12	0.99	1.26	1.19	1.25	1.00	1.09	0.74	1.08
6	1.08	1.12	1.39	1.48	1.36	1.25	1.51	1.37	1.37	1.28	1.21	0.78	1.26
7	1.08	1.39	1.45	1.41	1.26	1.32	1.24	1.17	1.47	1.44	0.98	0.83	1.25
8	1.12	1.37	1.38	1.61	1.29	1.38	1.32	1.16	1.41	1.55	1.08	0.84	1.29
9	1.31	1.22	1.43	1.51	1.20	1.27	1.23	1.07	1.22	1.51	0.90	1.04	1.24
10	1.29	1.22	1.35	1.40	1.08	1.10	1.06	0.89	1.08	1.11	1.01	1.11	1.14
11	0.96	1.21	1.18	1.18	0.89	0.87	0.94	1.06	0.90	0.98	0.80	0.99	0.99
12	0.94	0.99	1.19	0.84	0.70	0.71	0.83	0.95	0.69	0.91	0.53	0.49	0.82
Total amount of variation.	23.11	26.49	32.81	26.17	20.60	21.51	23.12	21.53	22.96	27.17	20.75	18.48	23.11

TABLE 21. Mean diurnal variation of Total Force for each month of the year 1887.

Uncorrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 5.0	— 4.0	— 6.3	— 5.1	— 5.5	— 6.6	— 7.0	— 8.3	— 7.3	— 5.3	— 5.5	— 3.7	— 5.9
2	— 4.1	— 2.9	— 5.5	— 3.9	— 4.7	— 6.3	— 5.8	— 7.1	— 5.5	— 4.8	— 3.2	— 4.7	— 4.9
3	— 3.6	— 1.8	— 4.4	— 2.9	— 3.4	— 4.5	— 5.1	— 5.9	— 4.1	— 5.2	— 3.7	— 4.9	— 4.2
4	— 3.4	— 2.0	— 3.7	— 1.2	— 1.9	— 4.3	— 4.2	— 3.9	— 2.5	— 3.1	— 2.8	— 3.7	— 3.1
5	— 2.8	— 0.5	— 2.1	0.9	0.9	— 2.1	— 2.4	— 2.2	— 2.4	— 2.2	— 1.5	— 2.2	— 1.6
6	— 0.3	0.6	— 0.3	1.7	1.7	— 0.4	— 0.9	— 1.0	— 0.9	— 0.3	2.1	2.3	0.3
7	3.9	5.2	4.4	6.6	7.3	3.8	4.2	7.2	8.0	9.6	6.1	6.8	6.1
8	6.4	7.3	11.0	11.4	12.7	9.2	10.7	15.8	17.1	14.8	12.8	10.6	11.7
9	10.2	9.1	14.9	13.7	17.3	13.4	16.1	22.9	21.0	17.8	15.4	12.7	15.3
10	15.5	10.1	14.4	15.8	18.2	16.8	18.6	26.6	22.5	18.3	15.2	13.0	17.1
11	16.9	11.5	12.9	15.7	18.5	17.6	17.8	23.5	22.6	15.9	11.1	12.3	16.4
12	11.3	8.3	10.4	12.3	11.7	13.3	13.8	16.9	19.2	12.8	7.1	8.7	12.1
1 p. m.	5.5	6.8	8.1	6.3	4.6	7.4	10.5	8.6	10.5	6.7	4.1	4.7	6.9
2	0.4	2.4	2.4	— 1.1	— 2.9	1.5	2.5	1.4	0.4	— 0.2	0.4	0.3	0.5
3	— 2.1	— 1.9	— 0.6	— 4.4	— 7.6	— 2.2	— 3.2	— 7.6	— 8.4	— 4.1	— 2.8	— 4,0	— 4.1
4	— 5.3	— 4.4	— 2.6	— 7.2	— 10.8	— 4.2	— 8.6	— 12.4	— 11.1	— 6.2	— 4.4	— 5.2	— 6.9
5	— 4.9	— 4.7	— 3.6	— 6.2	— 8.4	— 4.7	— 7.3	— 13.3	— 11.3	— 5.7	— 7.0	— 5.0	— 6.8
6	— 5.6	— 6.5	— 6.5	— 7.1	— 6.2	— 4.3	— 6.4	— 9.0	— 10.5	— 6.6	— 7.4	— 4.2	— 6.7
7	— 5.3	— 7.0	— 6.7	— 6.6	— 6.6	— 6.2	— 5.5	— 7.9	— 11.4	— 7.3	— 5.8	— 4.7	— 6.8
8	— 5.6	— 6.0	— 7.3	— 8.5	— 7.0	— 7.3	— 7.5	— 8.7	— 11.5	— 8.2	— 7.1	— 4.9	— 7.4
9	— 6.5	— 5.2	— 7.6	— 8.7	— 6.8	— 7.6	— 7.5	— 9.1	— 10.0	— 8.4	— 5.6	— 6.8	— 7.5
10	— 6.6	— 5.3	— 7.1	— 8.4	— 6.8	— 7.2	— 6.8	— 6.9	— 9.9	— 5.8	— 7.1	— 7.2	— 7.1
11	— 3.9	— 4.8	— 6.3	— 8 4	— 6.6	— 7.2	— 7.8	— 9.4	— 8.9	— 6.3	— 5.5	— 6.6	— 6.9
12	— 3.9	— 4.5	— 7.3	— 7.1	— 6.6	— 6.9	— 8.3	— 10.5	— 7.6	— 6.3	— 4.5	— 3.7	— 6.4
Total amount of variation.	139.0	122.8	156.4	171.2	184.7	165.0	188.5	246.1	244.6	181.9	148.2	142.9	172.7

TABLE 22. Mean Diurnal variation of Declination in the year 1887.

Observed by means of Wild's Magnetometer.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 0.05	— 0.11	— 0.11	0.04	0.04	— 0.17	— 0.27	— 0.43	— 0.15	— 0.01	— 0.07	— 0.13	— 0.12
2	— 0.07	— 0.10	— 0.17	0.11	0.21	— 0.06	— 0.10	— 0.36	— 0.08	— 0.03	0.00	— 0.13	— 0.07
3	— 0.17	— 0.18	— 0.29	0.12	0.33	0.04	— 0.10	— 0.25	— 0.03	— 0.03	— 0.09	— 0.22	— 0.07
4	— 0.22	— 0.23	— 0.36	0.10	0.32	0.17	0.00	— 0.17	0.11	— 0.04	— 0.24	— 0.39	— 0.08
5	— 0.39	— 0.44	— 0.50	0.03	0.34	0.17	0.13	0.03	0.32	— 0.18	— 0.50	— 0.66	— 0.14
6	— 0.67	— 0.78	— 0.84	0.04	0.55	0.33	0.33	0.48	1.03	— 0.22	— 1.17	— 1.31	— 0.19
7	— 1.14	— 1.75	— 1.53	— 0.33	0.76	0.91	0.84	1.09	1.09	— 1.29	— 1.87	— 2.03	— 0.44
8	— 1.27	— 2.36	— 2.18	— 1.17	0.02	0.50	0.45	0.54	— 0.16	— 2.06	— 2.26	— 2.04	— 1.00
9	— 1.17	— 2.03	— 1.81	— 1.47	— 0.74	— 0.09	— 0.20	— 0.29	— 1.30	— 2.26	— 2.04	— 1.60	— 1.25
10	— 1.11	— 1.31	— 0.88	— 1.05	— 1.00	— 0.52	— 0.56	— 0.80	— 1.69	— 1.89	— 1.31	— 0.85	— 1.08
11	— 0.92	— 0.21	0.34	— 0.18	— 1.10	— 0.65	— 0.67	— 0.97	— 1.57	— 0.82	— 0.16	— 0.01	— 0.58
12	— 0.23	0.89	1.38	0.33	— 0.83	— 0.61	— 0.36	— 0.73	— 1.17	0.38	1.10	0.77	0.08
1 p. m.	0.48	1.40	1.75	0.53	— 0.42	— 0.22	— 0.08	— 0.50	— 0.57	1.38	1.77	1.41	0.58
2	0.91	1.66	1.59	0.73	0.24	0.17	0.29	0.07	0.17	1.79	1.88	1.54	0.92
3	1.09	1.52	1.25	1.06	0.74	0.56	0.70	0.80	0.95	1.73	1.68	1.44	1.13
4	1.20	1.21	0.84	0.94	1.05	0.63	0.85	1.31	1.21	1.42	1.39	1.40	1.12
5	1.06	0.83	0.57	0.61	0.79	0.43	0.68	1.26	1.07	1.01	1.04	1.05	0.87
6	0.76	0.77	0.43	0.44	0.12	0.01	0.14	0.48	0.60	0.65	0.63	0.65	0.47
7	0.65	0.59	0.33	0.07	— 0.08	— 0.07	— 0.14	0.16	0.36	0.43	0.36	0.55	0.27
8	0.51	0.33	0.14	— 0.09	— 0.21	— 0.22	— 0.21	— 0.10	0.18	0.27	0.19	0.39	0.10
9	0.41	0.22	0.15	— 0.25	— 0.35	— 0.33	— 0.37	— 0.26	— 0.03	0.02	— 0.03	0.26	— 0.05
10	0.28	0.13	0.00	— 0.27	— 0.35	— 0.38	— 0.46	— 0.45	— 0.07	— 0.05	— 0.07	0.12	— 0.13
11	0.13	0.03	— 0.06	— 0.20	— 0.30	— 0.32	— 0.48	— 0.49	— 0.12	— 0.08	— 0.13	— 0.04	— 0.17
12	0.04	— 0.04	0.00	— 0.11	— 0.11	— 0.26	— 0.39	— 0.43	— 0.16	— 0.06	— 0.11	— 0.14	— 0.15
Total amount of variation.	14.93	19.12	17.50	10.27	11.00	7.82	8.80	12.45	14.19	18.10	20.09	19.13	11.06

TABLE 23. Mean Diurnal variation of Horizontal Force in the year 1887.

Observed by means of Wild's Magnetometer.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 6.0	— 5.7	— 8.6	— 4.5	— 6.5	— 7.4	— 7.9	— 9.1	— 8.0	— 6.7	— 9.7	— 3.7	— 7.0
2	— 4.3	— 3.7	— 7.1	— 2.4	— 4.3	— 5.7	— 5.2	— 6.6	— 4.4	— 6.7	— 6.7	— 4.8	— 5.2
3	— 3.7	— 2.5	— 5.9	— 1.8	— 3.2	— 3.3	— 3.8	— 4.6	— 2.8	— 6.8	— 6.9	— 4.1	— 4.1
4	— 2.5	— 1.9	— 5.1	0.8	— 0.4	— 3.3	— 2.6	— 0.9	0.2	— 3.5	— 6.0	— 3.1	— 2.4
5	— 2.3	— 0.5	— 3.0	2.0	2.8	— 0.9	— 0.6	1.7	0.0	— 1.6	— 4.3	— 0.2	— 0.6
6	0.6	— 0.2	— 0.9	3.7	6.6	3.3	2.9	5.0	3.1	0.6	— 1.2	3.1	2.2
7	5.0	3.5	3.2	7.3	12.5	9.2	10.2	14.9	12.9	9.3	3.1	8.8	8.3
8	9.6	8.9	14.1	13.7	19.2	14.7	18.2	23.1	20.4	15.7	11.1	12.8	15.1
9	14.8	15.5	23.8	19.9	25.2	17.9	24.4	28.9	27.4	23.3	17.9	17.2	21.4
10	22.1	21.3	30.1	26.2	28.2	21.6	28.1	33.3	31.0	28.7	26.4	19.5	26.4
11	24.5	26.4	30.3	26.5	28.3	20.8	26.5	29.5	32.6	29.7	24.4	19.5	26.6
12	19.4	21.6	25.7	20.8	19.1	16.4	20.8	21.1	26.9	27.4	18.6	15.6	21.1
1 p. m.	12.1	15.0	15.0	8.1	9.5	10.2	13.3	9.7	14.0	16.4	11.6	8.2	11.9
2	4.0	6.8	3.1	— 1.3	— 0.1	3.0	3.6	1.0	0.1	3.5	3.7	— 0.1	2.3
3	— 2.2	— 3.2	— 4.5	— 7.5	— 8.3	— 3.5	— 5.9	— 9.3	— 11.1	— 5.8	— 2.5	— 5.2	— 5.8
4	— 8.8	— 9.9	— 9.4	— 12.0	— 14.7	— 8.0	— 13.2	— 16.2	— 16.3	— 12.3	— 6.7	— 9.0	— 11.4
5	— 10.1	— 10.5	— 11.3	— 12.5	— 16.4	— 10.9	— 15.3	— 19.6	— 18.2	— 12.9	— 11.6	— 10.4	— 13.3
6	— 11.0	— 12.2	— 13.4	— 13.5	— 15.2	— 11.3	— 15.5	— 17.0	— 17.8	— 14.9	— 12.4	— 8.9	— 13.6
7	— 10.2	— 13.9	— 14.1	— 12.9	— 15.4	— 12.6	— 13.4	— 15.1	— 17.8	— 15.7	— 8.8	— 9.2	— 13.3
8	— 10.8	— 12.6	— 13.4	— 14.3	— 15.3	— 13.1	— 14.6	— 14.7	— 18.7	— 17.4	— 10.3	— 9.0	— 13.7
9	— 12.5	— 11.4	— 13.8	— 13.4	— 14.8	— 11.9	— 14.0	— 14.7	— 15.3	— 16.0	— 8.6	— 10.5	— 13.1
10	— 11.7	— 11.0	— 12.4	— 12.7	— 13.5	— 10.0	— 12.7	— 11.7	— 14.6	— 11.9	— 9.5	— 11.4	— 11.9
11	— 8.4	— 10.9	— 11.1	— 11.8	— 12.5	— 8.4	— 12.1	— 14.3	— 12.7	— 11.2	— 6.9	— 9.9	— 10.9
12	— 7.8	— 9.0	— 11.2	— 8.7	— 10.9	— 6.9	— 10.9	— 14.6	— 10.9	— 10.9	— 4.8	— 5.2	— 9.3
Total amount of variation.	224.4	238.1	290.5	258.3	302.9	234.3	295.7	336.6	337.2	308.9	233.7	209.4	270.9

TABLE 24. Mean Diurnal variation of Vertical Force in the year 1887.

Observed by means of Wild's Magnetometer.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	5.6	5.7	6.8	0.2	— 0.3	7.2	5.2	2.2	1.9	8.6	7.3	7.8	4.9
2	6.3	5.6	8.3	1.3	1.8	8.0	6.7	3.4	3.4	11.3	7.1	10.2	6.1
3	7.8	6.3	9.1	3.8	5.1	8.0	8.9	5.2	4.9	13.6	9.7	10.8	7.8
4	9.1	7.6	10.4	5.2	8.0	8.7	10.6	6.5	6.4	14.3	11.6	11.2	9.1
5	9.0	8.8	10.8	7.4	11.4	9.2	11.9	7.9	8.5	15.2	12.6	11.3	10.3
6	11.7	11.9	13.1	9.0	11.4	6.0	10.0	6 6	6.4	16.4	15.7	13.7	11.0
7	12.6	14.6	14.9	12.8	14.1	1.8	5.3	5.5	9.5	19.8	16 6	12.9	11.7
8	9.6	11.2	9.3	12.7	17.8	1.7	3.5	8.3	13.3	16.9	11.9	9.0	10 4
9	4.7	2.3	— 3.3	7.1	15.3	— 0.8	— 0.5	9.2	9.6	6.8	3.7	2.4	4.7
10	— 2.1	— 8.1	— 15.7	— 2.2	10.9	— 6.0	— 5.3	6.4	1.8	— 8.1	— 8.0	— 6.6	— 3.6
11	— 10.2	— 18.3	— 22.1	— 9.6	5.3	— 8.0	— 8.7	2.8	— 5.7	— 23.1	— 16.5	— 13.8	— 10.7
12	— 15.2	— 18.6	— 21.4	— 9.9	0.7	— 12.3	— 10.7	— 0.3	— 8.4	— 31.5	— 20.9	— 18.7	— 14.0
1 p. m.	— 16.4	— 15.3	— 14.9	— 6.6	— 6.3	— 14.0	— 11.2	— 3.0	— 7.7	— 31.3	— 18.7	— 17.5	— 13.6
2	— 15.0	— 11.3	— 7.5	— 5.6	— 12.1	— 16.4	— 13.4	— 7.7	— 10.5	— 24.3	— 14.9	— 14.2	— 12.7
3	— 10.0	— 5.5	— 2.6	— 6.2	— 16.4	— 14.2	— 12.4	— 12.7	— 8.5	— 15.5	— 11.5	— 11.4	— 10.6
4	— 6.0	— 0.2	0.1	— 4.4	— 15.5	— 7.7	— 7.6	— 12.7	— 6.1	— 6.2	— 6.9	— 8.9	— 6.8
5	— 3.2	— 0.1	0.0	— 3.5	— 10.7	— 0.1	— 1.2	— 6.9	— 3.9	— 3.9	— 2.4	— 5.0	— 3.4
6	— 2.6	— 1.9	— 0.8	— 2.6	— 7.2	3.4	2.7	— 3.1	— 2.6	— 1.3	— 1.3	— 4.1	— 1.8
7	— 2.4	— 0.2	— 0.6	— 3.0	— 7.1	3.9	— 0.3	— 4.6	— 2.2	0.7	— 3.0	— 3.0	— 1.8
8	— 1.8	— 0.3	— 1.0	— 2.0	— 7.3	4.6	— 0.2	— 4.6	— 2.3	2.3	— 1.0	— 1.6	— 1.3
9	1.0	— 0.6	0.5	— 1.6	— 6.0	4.6	0.3	— 4.3	— 3.2	3.9	— 0.7	1.2	— 0.4
10	2.1	0.8	1.1	— 1.2	— 5.0	4.2	0.5	— 4.0	— 2.3	3.3	2.5	4.2	0.5
11	1.9	2.8	1.8	— 0.5	— 3.8	4.2	2.2	— 1.0	— 1.5	4.8	3.8	5.8	1.7
12	3.8	3.2	3.7	— 0.7	— 2.8	4.4	3.6	0.7	— 0.6	7.3	3.8	4.9	2.6
Total amount of variation.	170.1	161.2	179.8	119.1	202.3	159.4	142.9	129.6	131.2	290.4	212.1	210.2	161.5

TABLE 25. — Showing for every day, the ratio R, a relative measure of the diurnal variation, as deduced from Table C. — Declination — 1887.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0.8	1.3	1.3	1.3	1.0	1.0	0.8	0.7	0.9	0.8	0.9	1.1
2	0.6	0.9	1.2	0.8	1.9	0.9	0.7	0.9	0.9	1.0	1.0	1.3
3	0.8	0.8	1.1	0.9	1.3	0.8	0.9	1.2	1.0	0.8	1.2	1.3
4	1.1	1.0	0.9	0.8	1.0	0.6	1.0	1.4	1.1	1.0	0.8	1.1
5	1.0	0.9	0.9	0.9	0.9	2.2	1.1	1.0	1.1	1.1	0.8	1.2
6	1.0	0.7	1.1	0.7	0.9	1.3	1.1	1.0	0.9	0.8	0.8	1.3
7	1.1	0.8	0.9	1.1	0.7	0.5	1.1	1.1	1.1	1.2	0.7	1.2
8	0.8	1.1	1.3	0.9	1.1	0.9	1.3	0.8	0.9	1.0	0.6	1.0
9	0.9	1.5	1.0	1.3	0.8	1.2	0.8	1.1	1.0	1.0	1.0	0.6
10	0.8	1.1	1.2	1.2	1.1	1.5	0.8	1.0	1.4	0.8	1.5	0.6
11	1.2	1.7	1.1	1.8	1.2	1.1	0.7	0.8	0.8	0.9	1.2	0.8
12	1.2	1.1	1.1	1.9	1.2	0.8	0.8	0.8	1.1	1.5	0.9	0.7
13	1.3	0.8	1.4	1.2	1.0	0.6	0.9	0.8	0.6	1.0	0.6	1.3
14	1.2	0.8	1.1	1.1	1.1	0.6	0.9	0.9	0.8	0.9	1.1	1.1
15	0.8	0.5	1.3	0.9	1.0	1.0	1.0	0.9	0.9	0.8	1.2	1.1
16	1.2	0.5	0.7	0.8	1.0	1.1	0.8	1.4	0.7	0.9	1.1	1.3
17	0.8	0.5	0.4	1.1	0.8	0.8	0.9	1.0	1.1	1.0	1.1	1.7
18	0.6	0.8	0.9	0.8	1.1	1.1	1.2	1.1	1.2	0.9	1.1	1.4
19	0.9	0.8	0.7	0.7	1.2	1.4	1.2	1.0	1.0	1.0	1.3	1.0
20	0.9	1.1	1.3	0.8	1.0	1.0	1.0	1.0	1.4	1.1	1.3	0.7
21	0.6	1.3	1.1	1.2	0.6	1.2	1.1	0.8	1.3	1.2 *	1.4	0.8
22	0.6	1.1	1.0	1.0	1.4	1.2	1.2	0.9	0.5	1.5 *	1.1	1.2
23	1.5	1.3	1.0	0.7	0.9	1.3	1.2	1.1	0.7	1.5	0.9	1.0
24	1.3	1.2	1.1	0.9	1.0	0.7	1.3	1.1	1.2	1.0	0.8	0.8
25	1.3	1.1	1.1	1.5	0.8	0.6	1.0	0.8	1.3	0.9	0.9	0.8
26	1.2	1.3	0.7	0.3	1.0	0.7	0.9	0.6	1.6	1.2	0.9	0.5
27	1.3	1.0	0.8	0.7	1.2	1.0	1.4	0.6	1.0	0.8	1.2	0.9
28	1.3	1.1	0.9	0.4	0.7	1.0	0.8	1.1	0.7	0.9	0.9	0.8
29	1.2		0.9	1.2	0.8	0.9	1.0	0.8	0.9	1.1	1.0	0.8
30	1.0		0.6	1.0	0.6	0.9	0.7	1.4	1.1	1.1	0.7	0.9
31	0.8		0.9		0.5		1.3	1.7		1.0		1.0
Mean ratio.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean amount of differences.	190	225	190	132	134	107	119	156	189	211	228	228

TABLE 26. — Showing, for every day, the ratio R, a relative measure of the diurnal variation, as deduced from Table C. — Horizontal Force — 1887.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0.2	1.1	1.0	0.9	0.7	1.4	0.7	0.8	1.1	0.9	0.8	0.6
2	0.7	0.6	1.0	0.8	2.0	0.9	0.9	1.1	1.0	1.1	1.1	0.8
3	1.0	0.9	0.8	1.4	0.9	0.9	0.9	1.3	1.0	1.0	1.1	0.9
4	0.8	0.7	1.1	0.8	0.7	0.8	0.8	1.0	0.7	1.2	0.8	0.8
5	0.7	1.1	0.9	1.6	0.9	3.3	1.0	1.1	1.1	1.3	0.8	0.7
6	1.0	1.0	1.2	1.2	1.0	1.4	1.5	1.1	0.9	1.1	1.0	1.0
7	1.4	1.5	0.9	1.1	0.9	1.0	2.1	0.9	1.0	0.9	0.8	1.1
8	0.7	0.8	1.0	0.5	0.8	1.0	1.3	0.6	1.1	0.8	0.9	0.9
9	0.8	1.6	0.9	1.1	0.8	1.1	0.9	0.8	1.6	1.0	0.8	1.0
10	1.1	0.7	0.9	0.8	1.2	1.1	1.2	1.0	1.5	1.0	1.7	0.7
11	1.2	0.6	0.8	1.6	1.3	1.0	1.0	0.9	0.8	0.8	1.0	0.7
12	1.1	0.8	1.0	0.7	1.0	1.0	1.0	0.8	0.7	1.4	0.8	1.1
13	1.1	1.0	0.9	0.7	0.6	0.8	1.0	0.9	0.8	0.8	0.6	1.5
14	1.3	1.0	0.8	1.1	0.9	0.6	0.9	1.0	1.0	1.0	0.9	1.1
15	1.6	0.4	1.4	1.0	0.6	0.8	0.9	1.0	1.0	0.9	1.2	1.2
16	0.8	0.8	0.8	0.7	1.0	0.6	0.6	0.7	1.1	1.1	1.0	2.4
17	1.2	0.6	0.5	1.3	1.1	0.8	0.8	0.9	1.0	1.4	0.9	1.3
18	1.2	0.9	0.8	1.0	1.1	0.7	0.7	0.8	1.0	0.7	0.9	0.8
19	1.1	0.8	0.8	0.8	1.0	1.3	0.9	1.1	0.8	0.9	1.4	1.2
20	1.0	1.5	1.7	1.1	0.6	0.7	0.7	1.1	0.8	0.9	1.1	1.0
21	0.9	1.2	1.2	1.3	0.8	0.8	0.9	1.0	0.9	0.9 *	1.8	0.8
22	1.1	0.8	1.0	0.8	1.0	0.9	0.9	1.0	1.4	1.7 *	0.7	1.5
23	1.4	1.3	1.3	0.7	0.8	0.8	0.9	0.9	0.7	1.3	0.9	0.7
24	1.1	0.9	1.1	0.7	1.2	0.9	0.9	1.1	1.0	0.8	0.6	0.7
25	1.3	1.1	1.1	1.9	1.1	1.2	1.0	1.0	1.0	0.8	1.1	1.3
26	1.0	1.4	1.2	0.5	1.3	0.8	1.1	0.6	1.1	1.6	0.9	0.5
27	0.8	1.3	1.1	1.0	1.3	0.8	1.4	1.0	1.1	0.6	0.8	1.3
28	0.8	1.5	1.0	1.4	1.0	1.0	1.0	1.3	0.8	0.4	1.2	0.8
29	1.0		1.0	0.9	1.2	0.9	0.9	1.8	0.9	1.0	1.4	0.4
30	0.6		0.7	0.6	1.0	0.8	0.8	1.1	0.9	1.5	1.2	1.1
31	1.2		1.1		1.1		1.3	1.0		0.9		0.8
Mean ratio.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean amount of differences.	277	298	339	339	305	286	313	369	377	313	278	260

TABLE 27. Showing, for every day, the ratio R, a relative measure of the diurnal variation, as deduced from Table C. — Vertical Force — 1887.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	1.1	0.6	1.0	1.2	1.1	1.0	0.8	0.8	1.0	0.9	1.3	0.7
2	0.4	0.3	1.0	0.8	1.8	0.8	0.9	1.2	0.8	1.4	1.5	1.7
3	1.0	0.6	1.0	1.6	0.7	0.9	1.1	1.0	0.9	1.0	0.9	1.0
4	1.0	1.1	1.1	0.8	0.7	1.0	1.0	1.2	0.9	1.3	0.6	1.0
5	0.9	1.5	0.7	1.0	0.8	2.7	1.3	1.2	1.1	1.0	1.0	1.3
6	1.1	1.6	1.1	1.0	0.9	1.1	1.2	1.2	0.9	0.9	0.8	1.6
7	1.1	1.0	1.0	0.9	0.9	0.9	1.5	0.9	1.2	0.7	1.1	1.7
8	0.9	0.9	1.0	0.7	0.6	0.7	1.3	1.4	0.9	0.9	0.9	1.4
9	1.3	1.3	1.1	1.2	1.3	0.8	1.2	0.8	1.0	1.2	0.9	0.4
10	0.7	1.0	1.0	1.0	1.1	0.8	1.2	1.1	0.9	0.8	1.6	0.3
11	1.3	1.5	1.0	1.6	1.3	1.0	1.2	1.1	0.8	0.9	1.2	0.5
12	0.9	1.0	1.1	1.0	1.1	1.3	1.2	0.9	0.5	1.4	0.7	0.7
13	1.3	0.8	1.1	0.8	0.7	0.7	1.2	1.2	0.6	1.0	0.4	1.1
14	1.6	1.0	1.3	0.9	0.7	1.3	0.9	0.9	0.9	0.9	1.0	0.6
15	1.5	0.6	1.4	0.8	0.8	0.8	0.9	0.9	0.8	0.9	1.7	1.7
16	1.1	0.7	0.7	1.4	0.9	0.9	0.7	0.7	1.3	0.8	0.9	2.3
17	1.1	0.8	0.6	1.1	1.6	1.7	1.0	0.7	1.1	1.0	1.0	1.1
18	0.7	1.1	1.0	0.9	0.7	1.0	0.5	0.8	0.9	0.6	0.7	0.9
19	1.5	0.8	0.7	0.8	1.7	0.9	1.0	0.7	1.1	0.7	1.3	1.2
20	0.7	1.1	1.3	0.8	0.7	0.8	0.8	0.8	1.1	1.6	0.6	1.1
21	0.6	1.0	0.9	1.4	1.3	0.8	1.0	0.9	0.6	1.1	1.9	0.9
22	0.6	1.0	1.3	0.7	1.2	0.7	0.7	1.0	1.1	1.2	1.6	0.9
23	1.4	1.3	1.1	0.8	0.7	0.7	0.8	1.2	0.8	1.2	0.9	0.8
24	1.3	1.2	1.1	1.1	1.0	0.7	0.6	1.0	1.1	0.9	0.4	0.8
25	1.1	1.0	1.2	1.6	0.8	1.1	0.8	0.9	1.0	0.8	0.9	0.7
26	0.7	1.1	1.0	0.7	0.8	1.0	0.8	1.0	1.4	1.2	0.7	0.5
27	1.0	1.1	1.1	1.0	1.1	0.7	0.9	1.1	1.5	0.6	1.4	1.1
28	1.2	1.0	0.9	1.3	0.9	1.4	0.9	1.0	0.8	0.7	0.7	0.5
29	0.8		0.6	0.6	0.8	1.2	0.9	1.6	1.5	1.0	0.8	0.4
30	0.4		0.6	0.7	1.0	0.7	1.1	1.0	1.2	1.5	0.6	1.0
31	0.4		0.9		1.2		1.6	0.6		0.9		0.9
Mean ratio.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean amount of differences.	219	269	293	241	183	179	190	166	182	243	192	178

TABLE 28. Mean hourly and monthly amount of deviations positive and negative taken conjointly — Declination 1887 — Unity = 0′.1.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	2.1	2.7	1.9	2.1	1.3	2.3	2.5	2.2	3.2	2.0	2.1	3.3	2.31
2	2.4	3.0	2.3	2.7	2.0	2.5	2.2	2.3	3.3	2.7	2.6	3.1	2.59
3	2.3	2.9	2.5	3.1	2.6	1.7	2.7	2.9	3.1	2.4	2.4	3.0	2.63
4	3.0	3.3	2.3	3.0	2.3	2.2	3.4	2.4	3.6	2.9	2.5	3.3	2.85
5	3.3	3.4	2.7	3.3	2.5	1.8	2.4	3.2	3.0	3.7	2.8	3.1	2.93
6	4.5	3.9	3.4	3.4	2.6	2.8	2.0	2.4	3.5	5.5	4.5	4.3	3.57
7	4.8	4.3	3.2	3.9	5.0	3.6	2.3	2.8	6.3	4.9	4.3	3.7	4.09
8	4.3	4.0	3.3	4.3	6.0	3.9	3.0	5.0	6.7	4.2	3.2	4.7	4.38
9	4.0	5.6	5.9	4.8	5.8	3.3	3.3	4.2	5.7	5.5	4.5	6.3	4.91
10	4.6	6.9	6.8	5.8	4.4	3.1	4.0	3.7	3.9	4.8	5.1	7.2	5.03
11	5.6	7.8	5.6	6.6	3.2	2.6	3.8	3.9	5.7	6.7	4.5	6.0	5.17
12	6.9	7.3	4.4	5.5	3.5	2.8	4.0	4.9	6.8	5.6	5.3	6.5	5.29
1 p. m.	5.7	6.5	2.7	4.2	4.9	3.7	3.9	5.4	9.7	4.1	3.7	5.6	5.01
2	4.9	4.9	2.9	4.9	5.2	3.5	4.0	5.5	9.3	4.5	3.3	4.4	4.78
3	3.6	3.3	3.3	3.5	4.5	3.4	4.1	4.2	5.6	3.2	3.0	4.0	3.81
4	4.1	3.3	2.8	2.9	3.2	3.3	2.5	3.9	3.6	3.7	4.2	4.2	3.48
5	2.9	3.2	3.1	3.4	2.6	3.7	2.2	3.1	2.5	2.8	4.6	3.8	3.16
6	2.5	3.1	2.4	3.0	2.4	4.1	2.9	2.5	2.6	1.9	3.2	2.8	2.78
7	2.0	2.9	2.1	3.1	2.6	3.3	1.8	2.4	2.9	2.5	2.6	2.1	2.53
8	2.3	3.8	2.3	1.9	2.8	2.8	2.2	2.9	2.6	2.4	2.5	3.0	2.63
9	1.9	3.6	2.2	2.3	2.7	2.4	2.0	2.6	2.9	2.5	3.1	2.1	2.53
10	2.2	3.1	2.1	1.7	2.8	1.7	1.4	2.3	2.5	1.9	2.6	2.2	2.21
11	2.2	2.7	2.0	1.7	2.5	1.6	2.1	2.0	2.7	1.8	2.2	2.5	2.17
12	1.9	2.4	1.9	1.3	2.1	2.4	2.2	1.5	3.0	2.4	2.1	3.4	2.22
Monthly Means.	3.50	4.08	3.09	3.43	3.31	2.85	2.79	3.26	4.36	3.53	3.37	3.94	3.46

TABLE 29. Mean hourly and monthly amount of deviations, positive and negative taken conjointly — Horizontal Force 1887. — Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	4.1	6.5	3.9	4.9	4.7	3.4	3.4	4.3	4.6	5.6	3.1	4.9	4.45
2	3.4	6.9	5.8	5.5	4.6	4.2	3.2	4.1	5.3	4.0	5.9	4.6	4.79
3	4.7	5.0	4.5	5.3	4.2	4.0	4.2	4.4	6.3	2.5	4.4	4.0	4.46
4	3.7	3.6	4.1	6.4	3.8	3.7	3.9	5.7	6.9	3.7	4.7	3.5	4.48
5	3.2	5.8	2.9	5.5	5.6	4.6	4.4	6.0	4.8	3.3	4.4	4.3	4.57
6	3.7	5.4	3.6	5.8	5.7	4.6	3.9	5.1	4.2	3.3	5.2	5.1	4.63
7	3.7	5.9	4.1	4.9	5.0	4.2	3.7	4.8	3.7	6.8	3.9	5.2	4.66
8	4.4	5.8	4.8	5.7	4.9	4.6	4.1	5.7	4.3	5.8	6.5	3.5	5.01
9	4.5	5.4	3.4	5.8	5.4	4.2	3.6	6.0	6.1	3.5	5.7	4.1	4.81
10	5.5	6.1	3.2	5.3	4.8	4.4	4.4	6.0	6.9	3.5	5.0	4.7	4.98
11	3.9	4.8	2.2	7.5	5.4	3.6	4.0	7.0	6.3	5.6	5.6	6.1	5.17
12	4.8	6.1	4.5	6.6	7.2	4.2	4.5	6.1	5.9	6.1	4.5	6.0	5.54
1 p. m.	6.2	5.2	4.2	9.1	7.6	7.0	5.9	7.4	6.7	6.0	6.6	6.7	6.55
2	5.3	5.6	5.7	12.5	7.3	5.7	6.5	8.1	8.8	5.6	5.9	7.5	7.04
3	5.4	7.4	5.6	12.1	6.9	6.2	6.5	8.9	8.9	4.1	5.2	6.5	6.98
4	6.6	6.3	4.4	7.6	5.9	6.3	4.7	7.9	6.6	5.5	6.4	5.5	6.14
5	5.0	6.5	4.6	6.1	4.8	4.9	4.8	7.3	6.0	5.7	6.3	5.9	5.66
6	4.0	5.7	6.7	6.3	5.1	6.5	5.5	5.3	4.8	4.5	6.8	4.6	5.48
7	3.7	6.5	4.8	7.6	5.1	5.1	3.7	5.5	6.2	5.2	4.6	4.2	5.18
8	4.7	6.1	3.6	7.8	4.0	5.0	4.8	5.1	6.4	6.8	3.9	4.1	5.19
9	5.6	6.7	4.3	7.3	4.2	5.6	4.8	4.5	5.2	4.4	3.8	5.2	5.13
10	3.7	6.1	3.5	6.1	5.9	4.4	3.3	5.8	5.3	6.6	5.0	6.2	5.16
11	5.8	6.7	3.7	5.4	5.6	4.6	3.9	5.8	6.4	4.4	4.6	5.2	5.18
12	5.2	6.7	4.7	5.4	5.3	4.2	4.0	4.5	5.5	5.2	5.7	6.0	5.20
Monthly Means.	4.62	5.95	4.28	6.77	5 38	4.80	4.40	5.89	5.92	4.90	5.15	5.15	5.27

TABLE 30. Mean hourly and monthly amount of deviations, positive and negative taken conjointly. — Vertical Force 1887. — Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	4.5	4.1	3.6	3.4	3.5	2.6	2.8	3.9	3.7	4.1	2.7	3.2	3.51
2	3.5	4.7	4.3	4.2	3.3	3.4	3.4	3.7	3.6	2.7	3.8	3.6	3.69
3	4.7	4.0	3.7	3.5	3.8	3.5	3.9	3.5	3.6	2.6	2.8	3.0	3.55
4	3.0	3.1	3.4	3.6	3.7	3.4	3.8	3.9	3.0	2.9	2.9	3.1	3.32
5	3.5	3.5	2.8	3.7	4.6	4.0	3.5	3.8	2.8	2.4	3.1	3.4	3.43
6	3.8	5.5	4.1	3.9	4.7	4.4	4.1	4.1	4.4	4.1	3.6	3.6	4.19
7	4.5	5.9	3.8	4.6	5.8	4.4	4.5	4.8	5.2	5.8	3.2	4.4	4.74
8	5.8	10.0	5.0	6.2	4.9	3.5	3.4	4.4	5.9	5.7	6.6	7.5	5.74
9	6.5	9.4	4.6	6.3	5.5	4.7	4.1	5.3	7.1	5.7	6.7	7.3	6.10
10	5.8	7.7	3.0	5.1	6.0	4.7	4.5	6.4	6.3	4.8	5.0	5.4	5.39
11	5.6	5.2	3.3	5.6	5.8	5.3	4.3	6.8	5.9	3.7	4.9	4.8	5.10
12	5.3	4.9	3.9	4.4	6.5	5.2	5.5	6.6	7.7	4.7	4.3	3.8	5.23
1 p. m.	6.9	5.8	3.3	6.6	6.1	5.4	4.1	5.6	8.8	4.1	4.8	5.4	5.58
2	7.8	8.4	4.9	9.4	6.0	5.5	5.0	5.8	7.3	5.2	4.8	5.8	6.33
3	7.5	9.4	5.5	6.1	7.2	5.3	5.2	6.0	5.6	5.5	4.7	6.1	6.18
4	6.3	7.0	4.4	5.6	6.0	4.0	4.5	5.4	6.5	5.0	4.2	4.4	5.28
5	3.6	6.0	2.9	4.2	4.1	2.5	2.9	3.1	3.8	3.7	3.9	4.1	3.73
6	3.4	3.5	3.5	3.9	2.8	3.1	2.9	3.4	2.8	2.4	4.7	2.9	3.28
7	3.4	3.7	2.5	4.3	2.4	2.8	2.2	3.3	3.3	4.0	3.0	2.8	3.14
8	3.3	4.1	2.9	4.4	2.0	2.5	2.1	3.6	3.5	4.1	2.7	2.0	3.10
9	3.4	4.9	2.9	4.2	2.6	2.6	2.4	3.1	3.1	3.0	2.5	2.6	3.11
10	3.0	4.0	2.6	3.4	3.2	2.8	2.3	3.1	3.3	3.2	2.4	3.5	3.07
11	3.9	4.8	3.4	3.9	3.8	2.8	2.4	3.6	3.7	2.4	2.9	2.8	3.37
12	3.5	5.5	3.7	3.8	3.2	2.8	2.8	3.5	3.7	2.8	3.8	5.0	3.68
Monthly Means.	4.69	5.63	3.67	4.76	4.48	3.80	3.61	4.45	4.78	3.94	3.92	4.19	4.33

TABLE 31. Aggregate values and numbers of disturbances, positive and negative taken separately.

1887.	Declination. in minutes of arc.				Horizontal Force. Unity = 0.00001 c. g. s.				Vertical Force. Unity = 0.00001 c. g. s.			
	Aggregate values.		Numbers.		Aggregate values.		Numbers.		Aggregate values.		Numbers.	
	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.
January . .	8.0	19.3	5	13	493	463	33	30	527	617	32	42
February . .	17.8	27.4	12	17	740	970	43	60	846	670	58	46
March. . . .	8.3	7.5	6	5	420	442	29	26	231	176	18	14
April	9.8	12.4	7	7	1053	1242	67	67	562	359	40	27
May	4.9	10.3	3	7	865	705	59	46	395	396	30	28
June	10.6	4.1	6	3	431	659	26	37	252	241	19	18
July.	8.5	1.7	5	1	315	502	22	29	232	145	18	11
August . . .	10.6	6.0	7	4	946	1009	63	47	416	381	27	29
September .	44.3	38.7	23	22	903	1032	51	61	506	510	34	34
October. . .	15.7	21.7	10	12	627	715	32	41	424	274	28	17
November .	5.0	9.9	3	7	655	679	37	43	298	291	20	21
December. .	16.6	20.2	12	13	692	602	40	34	448	415	30	30
Total amount.	160.1	179.2	99	111	8140	9020	502	521	5137	4475	354	317

TABLE 32. Aggregate values, numbers of disturbances, and mean daily value and number, positive and negative taken conjointly.

1887.	Declination in minutes of arc.				Horizontal Force. Unity = 0.00001 c. g. s.				Vertical Force. Unity = 0.00001 c. g. s.			
	Aggregate values.	Numbers.	Mean daily value.	Mean daily number.	Aggregate values.	Numbers.	Mean daily value.	Mean daily number.	Aggregate values.	Numbers.	Mean daily value.	Mean daily number.
January . .	27.3	18	0.88	0.6	956	63	30.8	2.0	1144	74	36.9	2.4
February . .	45.2	29	1.61	1.0	1710	103	61.1	3.7	1516	104	54.1	3.7
March. . . .	15.8	11	0.51	0.4	862	55	27.8	1.8	407	32	13.1	1.0
April	22.2	14	0.74	0.5	2295	134	76.5	4.5	921	67	30.7	2.2
May.	15.2	10	0.49	0.3	1570	105	50.6	3.4	791	58	25.5	1.9
June	14.7	9	0.49	0.3	1090	63	36.3	2.1	493	37	16.4	1.2
July.	10.2	6	0.33	0.2	817	51	26.4	1.6	377	29	12.2	0.9
August . . .	16.6	11	0.54	0.4	1955	110	63.1	3.5	797	56	25.7	1.8
September .	83.0	45	2.77	1.5	1935	112	64.5	3.7	1016	68	33.9	2.3
October. . .	37.4	22	1.21	0.7	1342	73	43.3	2.4	698	45	22.5	1.5
November .	14.9	10	0.50	0.3	1334	80	44.5	2.7	589	41	19.6	1.4
December. .	36.8	25	1.19	0.8	1294	74	41.7	2.4	863	60	27.8	1.9
Total amount.	339.3	210	11.26	7.0	17160	1023	566.6	33.8	9612	671	318.4	22.2
Means.			0.938	0.58			47.22	2.82			26.53	1.85

TABLE 33. Mean temperature of magnetograph-room, observed 7^{u} 30^{m} a. m. for the whole year 1887.

January	29.39	July	29.37
February	29.06	August	29.74
March	29.70	September	29.82
April	29.98	October	29.92
May	29.84	November	29.51
June	29.30	December	29.57
		Means	29.60

TABLE 34. Mean Temperature of magnetometer-room, observed at noon for the whole year 1887.

January	27.94	July	28.00
February	27.45	August	28.45
March	28.11	September	28.46
April	28.48	October	28.63
May	28.50	November	28.24
June	27.96	December	28.06
		Means	28.19

APPENDICES.

APPENDIX I.

On the solar and lunar diurnal variation of magnetic elements at Batavia.

The data used in this investigation of the solar and lunar diurnal variations at Batavia are the hourly records of the Magnetograph during the four-yearly period April 1883 to March 1887.

The deviations of the Declination and Inclination are given in minutes of arc, a positive number corresponding with an increase of *Easterly* Declination and *Southerly* Inclination. In comparing the results of this inquiry with those published in Appendix II of volume IX of the *Observations*, it must be remembered that there, in accordance with the original records, a positive sign denoted, on the contrary, a *Westerly* deviation of the Declination.

For Horizontal-, Vertical- and Total-Force-coëfficients a unity equal to 0.00001 c. g. s. has been adopted. The average value of the Horizontal Force during the whole four-yearly period is 0.37152, that of the Vertical Force 0.19875, of the Inclination therefore 28°8′40″, of the Total Force 0.42134 c. g. s.

The formulae representing the diurnal variations of the Inclination and the Total Force have been calculated by means of the differential formulae:

$$\delta F = \delta H \cos.i + \delta V \sin.i$$

$$\delta i = \delta V \frac{\rho \cos.i}{F} - \delta H \frac{\rho \sin.i}{F}$$

In the latter formulae ρ denotes the length of the arc equal to the radius expressed in minutes of arc and, δV and δH being given in hundredthousandth's parts of the c. g. s. unity, F has to be taken equal to 42134.

SOLAR DIURNAL VARIATION.

Declination. The single oscillation has its greatest amplitude in the months November to February, when the epoch of maximum Easterly deviation is $5^h\ 40^m$; as the sun approaches the equinoctial signs the variation decreases and, at the same time, the epoch of maximum deviation is retarded to $6^h\ 36^m$. During the months of greatest northerly sun's declination the single oscillation is very small, less then 0′.2 and the maximum-deviation occurs still later at $10^h\ 40^m$.

The double oscillation shows the same characteristics as the single oscillation, the epochs of maximum-deviation during the three periods of the year being $2^h\ 24^m$, $3^h\ 16^m$, $4^h\ 41^m$.

Here, however, the amplitude shows a very small decrease when the sun's declination varies from its greatest southerly to its greatest northerly value.

The great use of deducing these periodic formulae and discussing the single and double components of the resultant variation separately, is well demonstrated by this conclusion. It would appear viz. from the mere inspection of the numerical Tables, given in volumes VII, IX and X, that the double oscillation is zero in January and attains its greatest value in July, whereas evidence is afforded by the formulae that this is not the case, but that this effect is due to the preponderance of the single oscillation in January and that, on the contrary, the double oscillation in January is larger than in July.

Horizontal and Vertical Force. Compared to other places the diurnal variation of the Horizontal and Vertical components of the magnetic Force is very large. Both agree in showing a well marked maximum of amplitude, for the single as well as for the double oscillation, when the sun's declination is small but, whereas for the Horizontal component the amplitudes of the single and double oscillation are larger in July than in January, for the Vertical component the amplitudes are larger when the sun's declination is southerly than when it is northerly.

The epochs show, in the same manner as for the Declination, a very small retardation when the sun's declination varies from South to north.

The average epochs of greatest deviation, taken for the whole year, occur at:

	Single oscill.	Double oscill.
Horizontal Force.....	$22^h\ 20^m$	$11^h\ 6^m$
Vertical Force.....	$10^h\ 28^m$	$6^h\ 2^m$

The variations of the two components of the Force therefore can be considered to be almost exactly opposed to each other.

Inclination and Total Force. A natural consequence of this fact is that the variations of the Inclination are large and those of the Total Force relatively small, and also that the epochs of maximum deviations will be the same for Inclination and Vertical Force on the one hand, and for Total Force and Horizontal component on the other. A remarkable fact is that, whereas the Horizontal and Vertical components and the Inclination show a strongly marked maximum range during the periods of the equinoxes, that of the Total Force shows a uniform increase from December till July.

LUNAR DIURNAL VARIATION.

Considering the rather short period of four years from which the small lunar effect had to be calculated, the results of this inquiry, which necessarily bears a preliminary character, are very satisfactory, at least as regards the Declination and the Horizontal Force. The results of the Vertical Force are far less concordant for different periods of the year than those of the former elements. This fact is, in my opinion, not chiefly to be ascribed to the lesser accuracy of the records of the balance-magnetometer, but reveals a real phenomenon viz. that the lunar effect on the Vertical Force at an equatorial station is actually very small and that therefore, whereas in the case of the Solar diurnal variation the oscillation of the Total Force is small and that of the Inclination large, in the case of the Lunar inequality, on the contrary, the effect on the Inclination is almost zero, that on the Total Force relatively large. This opinion is based in the first place on the perfectly satisfactory results obtained from the records of this instrument in calculating the solar-diurnal variation and on the fact that even the smallest disturbances observable in the photograms corresponding to the Bifilar-magnetograph find their counterparts in the curves delivered by the balance-magnet, in the second place on the results exhibited in Tables 6 and 7, which all agree in showing very small values for the amplitudes of the Inclination.

The constants of the periodic formula:

$$y = A_1 \sin. (\theta x + C_1) + A_2 \sin. (2\theta x + C_2)$$

given in Tables 3 to 8 are calculated by tabulating the *Deviations*, published in extenso in the »observations" according to lunar hours. These quantities are, as has been fully explained in the preface to Vol. VI, Supplement, corrected for secular variation and solar diurnal inequality. The amplitudes exhibited in Table 9 are calculated by means of the quantities C, the differences of each individual record and the corresponding twenty-four-hourly mean value. These differences are tabulated, according to the moon's *age* in such a way that for each solar hour a separate Table is laid out: in this manner the arrangement according to the moon's age is identical with a classification according to lunar hours, each interval corresponding with the $\frac{24}{29.^5}$ th part of one lunar hour. The data employed for this inquiry, therefore, are not corrected for solar diurnal variation and, the period being only four years, they are subjected to a gradual decrease owing to the diminution of the number of sunspots from the commencement of 1884 till the present time, the more so because the quantities are composed of solar diurnal variations and disturbances both of which vary with the frequency of sunspots; and this gradual decrease during 29.5 days will not be without influence on the calculated coëfficients. When this investigation is extended over a period of one or more sunspot-cycles this disturbing influence will disappear. In Tables 6 and 7 the constants of the formula are given for three periods of the year; in the former those of the single, in the latter those corresponding to the double oscillation. As might have been expected the arguments of the single periodic formula are not so well defined as those of the double periodic formula but still the important conclusion may be drawn, that the single variation for all elements is largest when the sun is in the equinoctial signs. From Table 7 it is evident that the amplitude of the double oscillation attains its maximum when the sun's declination is Southerly, at least for Declination and Horizontal Force, and that the conclusion arrived at in Appendix II of the foregoing Volume IX viz. that a great many of the deviations, which are noted down as local disturbances are, in reality, due to lunar influence, is fully confirmed by this new series and for all elements. Hitherto, therefore, the lunar influence has been greatly undervalued in consequence of the apparently disturbed records having been rejected.

In the case of the Horizontal Force the variation is as much as twice as large when no observations are omitted as when the larger deviations are rejected from the computation, whereas the arguments for the three periods of the year agree even more closely when the records are taken into account conjointly than when they are corrected for disturbances.

Another fact which is revealed by Table 7 is that the double variation of the Declination at Batavia changes its sign and assumes a *Northerly* character when the sun's declination is Northerly, a fact that has been established long ago by Messrs *Chambers* and *Broun* for British India but which hitherto has not been stated for Batavia and is of great importance in consequence of the high Southerly magnetic latitude in which Batavia is situated.

The arguments of the Horizontal Force formulae are remarkably constant, thus showing the great accuracy of the records of the Bifilar-magnetograph.

In Table 8 the average yearly values of the constants of the *double* periodic formula are given with a view of examining the influence of the sunspot-frequency on the lunar variation. The result is still ambiguous and wants corroboration by extension of the investigation to a larger number of years than is now available.

Table 9 exhibits the amplitudes of the formula for different periods of the day. From 5 a. m. till 7 p. m. the day has been divided into 5 parts; the night-hours 8 p. m. till 4 a. m. are taken conjointly. The dependency of the amplitude on the sun's height above the horizon is well marked in these preliminary results: but the number of lunar days corresponding to each period is evidently too small to exclude ambiguity and the further discussion of this phenomenon must be deferred to a future time.

TABLE 1. Solar diurnal variation, constants of the formula.

		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Declination.	A_1	1.′20	1.′22	1.′02	0.′64	0.′24	0.′13	0.′12	0.′52	0.′63	0.′98	1.′26	1.′21	0.′69
	C_1	359°	4°	7°	352°	323°	185°	245°	297°	320°	354°	14°	4°	355°
	A_2	0.′73	0.′98	0.′87	0.′79	0.′77	0.′66	0.′79	1.′11	0.′95	1.′06	1.′06	0.′89	0.′77
	C_2	18°	20°	17°	349°	316°	308°	310°	306°	323°	0°	19°	15°	348°
Horizontal Force.	A_1	20.29	19.78	24.61	27.89	23.28	23.45	23.14	24.21	27.00	24.26	20.47	16.92	22.88
	C_1	110°	106°	110°	113°	119°	121°	118°	120°	119°	114°	116°	115°	115°
	A_2	9.72	9.47	10.83	12.14	10.05	9.79	9.47	10.09	11.98	10.63	7.97	7.87	9.94
	C_2	108°	108°	108°	114°	123°	119°	124°	126°	123°	116°	112°	118°	117°
Vertical Force.	A_1	16.56	19.46	20.84	22.98	16.89	17.31	17.64	15.78	22.41	22.76	21.45	15.90	19.00
	C_1	288°	282°	286°	290°	296°	308°	303°	296°	301°	291°	295°	287°	293°
	A_2	9.25	10.77	11.07	11.98	6.90	5.61	5.10	5.32	8.72	13.08	10.89	8.82	8.93
	C_2	272°	268°	275°	276°	270°	272°	271°	258°	266°	265°	267°	270°	269°
Inclination.	A_1	1.′97	2.′16	2.′45	2.′73	2.′11	2.′14	2.′16	2.′07	2.′65	2.′57	2.′33	1.′79	2.′25
	C_1	289°	283°	287°	291°	297°	305°	301°	298°	300°	292°	295°	290°	294°
	A_2	1.′03	1.′12	1.′21	1.′31	0.′85	0.′76	0.′70	0.′71	1.′03	1.′31	1.′07	0.′91	1.′00
	C_2	278°	274°	279°	282°	284°	285°	287°	282°	281°	274°	274°	279°	280°
Total Force.	A_1	10.09	8.33	11.90	13.79	12.59	12.63	12.14	13.93	13.25	10.68	7.94	7.54	11.21
	C_1	112°	111°	112°	116°	122°	126°	115°	122°	117°	118°	116°	122°	117°
	A_2	4.52	3.93	4.64	5.62	6.38	6.39	6.49	7.45	7.71	5.17	3.24	3.80	5.38
	C_2	123°	133°	124°	132°	139°	130°	136°	140°	142°	154°	155°	149°	138°

TABLE 2. Solar diurnal variation, constants of the formula.

	A_1	C_1	A_2	C_2	
November—February	**1.′22**	5°	**0.′92**	18°	Declination.
March, April, September, October	0.79	351°	0.86	352°	
May—August	0.19	289°	0.83	310°	
Year	0.69	355°	0.77	348°	
November—February	19.33	112°	8.73	111°	Horizontal Force.
March, April, September, October	**25.90**	114°	**11.35**	115°	
May—August	23.52	120°	9.84	123°	
Year	22.88	115°	9.94	117°	
November—February	18.27	288°	9.92	269°	Vertical Force.
March, April, September, October	**22.15**	292°	**11.17**	270°	
May—August	16.83	301°	5.70	268°	
Year	19.00	293°	8.93	269°	
November—February	2.′06	289°	1.′04	276°	Inclination.
March, April, September, October	**2.59**	293°	**1.22**	279°	
May—February	2.12	300°	0.75	285°	
Year	2.25	294°	1.00	280°	
November—February	8.45	115°	3.78	138°	Total Force.
March, April, September, October	12.40	116°	5.69	139°	
May—February	**12.80**	119°	**6.66**	137°	
Year	11.21	117°	5.38	138°	

TABLE 3. Lunar diurnal variation of the Declination, constants of the formula.

		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
All Observations.	A_1	0.068	0.061	0.041	0.028	0.060	0.067	0.041	0.039	0.072	0.092	0.031	0.095	0.023
	C_1	334°	18°	153°	237°	236°	23°	289°	237°	295°	250°	188°	175°	263°
	A_2	0.261	0.157	0.148	0.080	0.045	0.062	0.045	0.058	0.073	0.091	0.218	0.253	0.089
	C_2	91°	87°	112°	149°	125°	281°	146°	307°	13°	16°	87°	87°	87°
	Number of Observ.	2880	2616	2880	2544	2688	2784	2880	2736	2736	2880	2784	2832	33240
Disturbances.	A_1	0.563	0.466	0.206	0.687	0.790	0.505	0.890	0.680	0.356	0.665	0.061	0.255	0.166
	C_1	316°	333°	162°	198°	268°	326°	102°	227°	334°	219°	51°	194°	249°
	A_2	1.375	0.671	0.946	0.756	0.223	1.075	0.424	0.380	0.560	0.478	1.448	1.714	0.418
	C_2	91°	74°	105°	194°	239°	248°	98°	303°	1°	28°	75°	87°	87°
	Number of Observ.	212	191	126	102	99	54	74	81	197	140	132	170	1578
Corrected for disturbances.	A_1	0.035	0.045	0.031	0.021	0.040	0.059	0.057	0.030	0.049	0.077	0.034	0.065	0.015
	C_1	353°	68°	146°	302°	226°	24°	287°	234°	274°	265°	213°	170°	259°
	A_2	0.160	0.125	0.115	0.067	0 033	0.045	0.039	0.051	0.034	0.066	0.149	0.161	0.062
	C_2	92°	92°	113°	127°	116°	286°	165°	113°	25°	10°	98°	89°	92°
	Number of Observ.	2668	2425	2754	2442	2589	2730	2806	2655	2539	2740	2652	2662	31662

TABLE 4. Lunar diurnal variation of the Horizontal Force, constants of the formula.

		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
All Observations.	A_1	0.64	0.25	0.23	1.16	1.37	0.28	0.82	0.88	1.45	1.08	1.21	1.21	0.31
	C_1	191°	68°	252°	65°	6°	271°	209°	134°	63°	23°	65°	276°	54°
	A_2	0.89	1.36	1.07	0.50	0.63	0.52	1.23	0.57	0.80	0.62	1.11	1.74	0.87
	C_2	248°	223°	224°	207°	204°	187°	228°	236°	199°	241°	186°	225°	219°
	Number of Observ.	2784	2496	2808	2544	2760	2688	2880	2832	2784	2880	2784	2736	32976
Disturbances.	A_1	6.60	2.61	2.79	4.72	8.61	1.33	4.13	3.84	6.48	6.94	5.05	6.24	1.01
	C_1	210°	228°	267°	45°	358°	42°	183°	151°	48°	11°	65°	277°	9°
	A_2	3.91	5.60	4.92	1.75	2.43	4.49	6.80	0.95	5.15	1.90	4.47	6.29	3.70
	C_2	235°	198°	225°	188°	200°	224°	223°	350°	178°	231°	184°	226°	212°
	Number of Observ.	361	365	445	423	429	369	458	358	476	431	468	386	4969
Corrected for disturbances.	A_1	0.22	0.66	0.17	0.53	0.17	0.42	0.11	0.60	0.59	0.25	0.56	0.48	0.22
	C_1	62°	61°	144°	96°	81°	248°	116°	116°	85°	98°	69°	274°	89°
	A_2	0.55	0.79	0.43	0.23	0.19	0.42	0.19	0.60	0.36	0.43	0.49	1.03	0.39
	C_2	259°	246°	225°	240°	204°	108°	257°	235°	283°	255°	198°	225°	234°
	Number of Observ.	2423	2131	2363	2121	2331	2319	2422	2474	2308	2449	2316	2350	28007

TALBE 5. Lunar diurnal variation of the Vertical Force, constants of the formula.

		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
All Observations.	A_1	1.20	0.36	0.47	0.76	0.66	0.26	0.64	0.48	1.56	0.51	0.34	1.21	0.13
	C_1	62°	53°	296°	219°	206°	324°	42°	39°	204°	246°	144°	95°	137°
	A_2	0.99	0.23	0.29	0.89	0.54	0.96	1.23	1.60	0.81	1.65	1.00	1.37	0.25
	C_2	8°	64°	340°	204°	157°	161°	153°	190°	268°	177°	353°	21°	174°
	Number of Observ.	2592	2592	2904	2472	2760	2712	2880	2592	2424	2880	2640	2664	32112
Disturbances.	A_1	4.85	1.22	2.72	3.63	5.58	2.58	2.65	2.19	5.62	0.97	1.88	4.14	1.61
	C_1	74°	102°	246°	165°	204°	144°	85°	9°	204°	239°	143°	121°	155°
	A_2	5.11	0.98	2.61	3.67	1.49	4.55	3.70	4.96	3.32	5.27	5.39	7.31	0.58
	C_2	10°	43°	7°	224°	94°	137°	116°	219°	325°	173°	343°	2°	13°
	Number of Observ.	431	460	370	270	348	282	342	348	485	481	493	460	4770
Corrected for disturbances.	A_1	0.49	0.33	0.43	0.72	0.07	0.40	0.50	0.32	0.54	0.40	0.06	0.65	0.10
	C_1	46°	15°	344°	245°	39°	327°	19°	57°	188°	236°	207°	70°	4°
	A_2	0.15	0.09	0.12	0.59	0.53	0.72	1.08	1.20	0.78	0.98	0.21	0.44	0.47
	C_2	2°	109°	260°	190°	183°	185°	171°	175°	216°	180°	86°	97°	178°
	Number of Observ.	2161	2132	2534	2202	2412	2430	2538	2244	1939	2399	2147	2204	27342

TABLE 6. Lunar diurnal variation, constants of the single-periodic formula.

	All Observations.		Disturbances.		Corrected for disturbances.		
	A_1	C_1	A_1	C_1	A_1	C_1	
November—February	0.'003	233°	0.'217	315°	0.'013	144°	Declination.
March, April, September, October	**0.041**	251°	**0.319**	215°	**0.032**	262°	
May—August	0.024	282°	0.186	251°	0.022	287°	
Year	0.023	263°	0.166	249°	0.015	259°	
November—February	0 02	5°	2.07	237°	0.26	51°	Horizontal Force.
March, April, September, October	**0.82**	51°	**3.96**	25°	**0.37**	97°	
May—August	0.12	85°	0.76	45°	0.15	136°	
Year	0.31	54°	1.01	9°	0.22	89°	
November—February	0 69	81°	2.72	103°	0.33	51°	Vertical Force.
March, April, September, October	**0.71**	225°	**2.81**	205°	**0.34**	241°	
May—August	0.14	32°	1.33	154°	0.27	14°	
Year	0.13	137°	1.61	155°	0.10	4°	
November—February	0.'05	82°	0.'26	9°	0.'01	51°	Inclination.
March, April, September, October	**0.08**	227°	**0.36**	205°	**0.04**	254°	
May—August	0.01	7°	0 11	169°	0.02	2°	
Year	0.01	194°	0.15	163°	0.01	312°	
November—February	0.33	78°	1.33	192°	**0.39**	51°	Total Force.
March, April, September, October	**0.39**	56°	**2.17**	25°	0.21	122°	
May—August	0.15	64°	0.75	97°	0.13	78°	
Year	0.29	66°	0.50	68°	0.21	75°	

TABLE 7. Lunar diurnal variation, constants of the double-periodic formula.

	All Observations.		Disturbances.		Corrected for disturbances.		
	A_2	C_2	A_2	C_2	A_2	C_2	
November—February	**0.'222**	88°	**1.'293**	83°	**0.'149**	93°	Declination.
March, April, September, October	0.056	81°	0.241	90°	0.047	87°	
May—August	0.012	251°	0.287	251°	0 010	265°	
Year	0.089	87°	0.418	87°	0.062	92°	
November—February	**1.20**	221°	**4.77**	211°	**0.67**	233°	Horizontal Force.
March, April, September, October	0.72	218°	3.15	204°	0.34	251°	
May—August	0.70	218°	3.24	222°	0.20	208°	
Year	0.87	219°	3.70	212°	0.39	234°	
November—February	0.86	12°	**4.55**	1°	0.19	84°	Vertical Force.
March, April, September, October	2.63	209°	1.09	234°	0.58	197°	
May—August	**1.04**	169°	2.52	152°	**0.88**	177°	
Year	0.25	174°	0.58	13°	0.46	178°	
November—February	**0.'10**	24°	**0.'50**	12°	0.'04	63°	Inclination.
March, April, September, October	0.02	196°	0 07	347°	0.04	180°	
May—August	0.06	150°	0.18	111°	**0.06**	177°	
Year	0.02	70°	0.18	28°	0.03	151°	
November—February	0.73	236°	2.58	235°	0.52	228°	Total Force.
March, April, November, October	0.93	215°	3.23	208°	0.51	225°	
May—August	**1.01**	196°	**3.45**	203°	**0.57**	186°	
Year	0.86	214°	3.01	214°	0.50	212°	

TABLE 8. Lunar diurnal variation, constants of the double-periodic formula for every year.

		All Observations.		Disturbances.		Corrected for disturbances.	
		A_2	C_2	A_2	C_2	A_2	C_2
Declination.	1883	0.′069	79°	0.′624	76°	0.′031	80°
	1884	0.100	93°	0.553	89°	0.070	96°
	1885	0.076	97°	0.632	87°	0.047	106°
	1886	0.081	80°	0.860	70°	0.058	83°
	1887	0.084	52°	0.930	43°	0.062	60°
Horizontal Force.	1883	1.120	241°	4.881	243°	0.398	245°
	1884	0.913	217°	4.414	207°	0.355	242°
	1885	1.075	215°	4.337	210°	0.492	223°
	1886	0.608	196°	2.580	184°	0.361	224°
	1887	0.551	202°	1.815	195°	0.430	210°
Vertical Force	1883	0.514	149°	1.061	53°	0.652	165°
	1884	0.060	0°	2.971	359°	0.402	183°
	1885	0.314	111°	1.349	33°	0.417	154°
	1886	0.578	195°	1.305	220°	0.681	187°
	1887	0.496	236°	2.369	274°	0.410	218°

TABLE 9. Amplitudes for six different period of the day.

		All Observations.			Corrected for disturbances.		
		A_1	A_2	Number of lunar days.	A_1	A_2	Number of lunar days.
Declination	5 a. m. — 7 a. m.	0.′026	0.′115	150	0.′042	0.′095	143
	8 a. m. — 10 a. m.	0.086	0.278	150	0.065	0.214	137
	11 a. m. — 1 p. m.	0.005	0.277	151	0.019	0.137	130
	2 p. m. — 4 p. m.	0.043	0.165	150	0.050	0.148	142
	5 p. m. — 7 p. m.	0.016	0.052	149	0.018	0.044	141
	8 p. m. — 4 a. m.	0.016	0.014	445	0.013	0.018	441
Horizontal Force . .	5 a. m. — 7 a. m.	0.336	1.577	150	0.210	0.897	131
	8 a. m. — 10 a. m.	0.340	1.918	150	0.197	1.558	130
	11 a. m. — 1 p. m.	0.643	2.291	151	0.634	1.299	125
	2 p. m. — 4 p. m.	0.406	1.817	150	0.177	0.888	116
	5 p. m. — 7 p. m.	0.362	0.726	149	0.020	0.641	125
	8 p. m. — 4 a. m.	0.339	0.629	444	0.341	0.348	387
Vertical Force. . .	5 a. m. — 7 a. m.	0.317	0.378	150	0.285	0.235	128
	8 a. m. — 10 a. m.	0.376	0.495	150	0.338	0.399	113
	11 a. m. — 1 p. m.	0.254	2.607	151	0.887	1.822	120
	2 p. m. — 4 p. m.	0.626	0.973	150	0.803	0.292	113
	5 p. m. — 7 p. m.	0.247	0.124	149	0.282	0.309	135
	8 p. m. — 4 a. m.	0.183	1.274	444	0.165	1.140	413

APPENDIX II.

On the period of the rotation of the sun as determined by meteorological data.

1. In Appendix III of the preceding volume, the results were given of an investigation, according to *Hornstein's* method, into the existence of a twenty-six-day period of barometric daily means and ranges, by which it was proved that, by this method, a periodical variation of the daily means might be demonstrated and that no trace of this phenomenon in the daily oscillation was observable. The above method, however, is open to several objections and, although it certainly has done excellent service in *pointing out* the existence of this variation, it is inadequate for obtaining an accurate *determination* of the period and the amplitude of the variation, the latter being in all cases, even in high latitudes, very small with respect to the disturbing influences to which the data, from wich it has to be calculated, are subjected.

Proof has repeatedly been given in these publications that the now twenty-two-yearly series of hourly meteorological observations is unequalled when the object is to detect and determine periodical variations of very small amplitude. In fact, if the lunar atmospheric tide be taken as an example, the conclusion to wich Dr. *Van Bebber* (1) arrived, that in high latitudes even a thirty-yearly series of observations is insufficient to obtain a well defined and smoothly running curve, may be safely endorsed, whereas at tropical stations such as *Batavia*, *Singapore* and *St. Helena*, hourly observations during a few months lead to a fair evaluation of the general character and the amplitude of the phenomenon, and the period of one year is sufficient to fix also the epoch of the periodical variation with great accuracy.

From the twenty-two-yearly series of *Batavia* therefore conclusions may be drawn which it would be impossible to derive even from a thousand-yearly series in Europe. It has been deemed therefore of some importance to investigate the question of the determination of the sun's rotatory time by means of the available meteorological observations; the more so because it seems probable that this way of attacking the question of the gradual decrease of the sun's diameter, which is a postulate of *Helmholtz's* hypothesis about the conservation of the sun's energy will, in future, lead to a satisfactory answer before an experimental test of this hypothesis is afforded either by direct measurement, by observation of sunspots, or spectroscopical inquiries.

It was shown, however, in Appendix III of volume IX by the application of *Hornstein's* method, that the amplitude of the variation, which we may expect to find, is very small and that it is therefore indispensable, that the whole series be taken into account and not the single years as is usual and necessary in *Hornstein's* method.

The principal objection to this method is that it is impossible to extend the operations to a large period, because, by carrying on the arrangement according to an arbitrary number, the advantage of the elimination of disturbing influences is counterbalanced by the disadvantage of the gradual vanishing of the amplitude.

The periodical variation to which a quantity y is subjected may be represented by the expression:

$$y = A \sin. (nx + C)$$

in which x denotes the number of units of time passed since the commencement of the arrangement, C the argument at that instant or the epoch, n the speed or the angular variation per unit of time, expressed in degrees; then, if we adopt for unit of time the mean solar day, the duration of the periodical variation will be:

$$R = \frac{360^\circ}{n}$$

If now these quantities y are classified according to a number:

$$K = \frac{360^\circ}{n'}$$

then it is easily found that, when the arrangement is continued over m columns, the K sums satisfy the equation:

(1) Handbuch der Witterungskunde, Theil 1, S. 118.

$$A \frac{\sin. m \frac{Kn}{2}}{\sin. \frac{Kn}{2}} \sin. \left\{ nx + C + (m-1) \frac{Kn}{2} \right\} \ldots\ldots\ldots\ldots (1)$$

and that the K means may be represented by the formula:

$$A \frac{\sin. m \pi \frac{K}{R}}{m \sin. \pi \frac{K}{R}} \sin. \left\{ nx + C + (m-1) \pi \frac{K}{R} \right\} \ldots\ldots\ldots (2)$$

The curve of the resulting means, therefore, bears the same character as the original curve, because it has the same speed, but the amplitude A is altered by multiplication by the coëfficient:

$$\frac{\sin. m \pi \frac{K}{R}}{m \sin. \pi \frac{K}{R}} \ldots\ldots\ldots\ldots\ldots\ldots\ldots (3)$$

the greatest value of which is equal to unity when $K = R$ whereas the phase has been shifted by a quantity:

$$(m-1) \pi \frac{K}{R}$$

When $K = R$ this quantity is equal to a plural number of 2π when m is uneven, of π when m is even.

In the latter case however the coëfficient (3) assumes a negative sign, thus compensating the effect of the quantity π which remains between the brackets of the sine.

When applying *Hornstein's* method the quantities under consideration are arranged according to the numbers 24—28: in the most unfavorable case R is equal to 25,5; then, for $K = 26$, the coëfficient (3) assumes the following values:

after one year	$m = 14$,	coëfficient	$= 0.881$
» two years	$m = 28$	»	$= 0.573$
» three »	$m = 42$	»	$= 0.204$
» four »	$m = 56$	»	$= 0.087$

by which it is shown that, when the operation is extended to a period of only two years, the amplitude has been reduced to about half its original value. When, in confirmity with the facts, we asume for R a value equal to 25.8 the values of the coëfficient are for $K = 26$:

after one year	0.976
» two years	0.920
» three »	0.851
» four »	0.715
» five »	0.580
» six »	0.439

and when a six-yearly series of observations is employed, for the different values of K:

$K = 24$	$m = 91$	coëfficient $= 0.045$
25	88	0.088
26	84	0.439
27	81	0.045
28	78	0.043

A second objection to which this method is open, is that after arrangement according to the numbers 24—28, the amplitudes of the resulting curves are calculated in the usual way according to the method of the least squares. In this manner however, it is not the true amplitude of formula (2) that is found, but a value of a very complicated description, because the speed of the variation is in all cases $\frac{360^\circ}{R}$ and not $\frac{360^\circ}{K}$.

The common way of calculating the amplitude is based on the fact that

$$\Sigma \sin. nx. \cos. nx = 0$$

and $\Sigma \sin^2. nx = \Sigma \cos^2. nx = 0.5\ R$:
here however the expressions

$$\Sigma \sin. nx. \cos. n'x \text{ and } \Sigma \cos. nx. \sin. n'x$$

will differ from zero in the same proportion as K differs from R; the same remark holds good for the expressions:

$$\Sigma \sin. nx. \sin n'x \text{ and } \Sigma \cos. nx. \cos. n'x$$

which, generally, are not equal to 0.5 K.

If, therefore, the formula (2) be written

$$\Delta_x = A' \sin (nx + C')$$

we find for the components a_1 and b_1 instead of:

$$a_1 = A' \sin C' \qquad b_1 = A' \cos C'$$

the values:

$$a_1 = \frac{2}{K} A' \sin. C' \Sigma \cos. nx \cos. n'x + \frac{2}{K} A' \cos. C' \Sigma \sin. nx \cos. n'x$$

$$b_1 = \frac{2}{K} A' \sin. C' \Sigma \cos. nx. \sin. n'x + \frac{2}{K} A' \cos. C' \Sigma \sin. nx \sin. n'x.$$

When $R = 25.8$, $K = 28$ we find:

$$a_1 = A' \sin. C' \times 0.995 + A' \cos. C' \times 0.254$$
$$b_1 = - A' \sin. C' \times 0.252 + A' \cos. C' \times 0.915.$$

Sufficient evidence is given by these numerical examples that the method of *Hornstein* cannot well be applied to a large series of data and therefore must be considered to be inadequate when very small quantities are concerned. In high latitudes where the amplitude of magnetical elements is larger, the method has been proved to be very valuable owing to its indicating the existence of a periodical variation, but even there it cannot be expected to lead to an accurate determination of the quantity R and has to be superseded by a method which is free from these objections.

A second method, which has been proposed (1), is to follow the way adopted in determining periodically varying astronomical and physical quantities by calculating the epoch at which the same phase occurs for two different series and interpolating a whole number of circumvolutions between the two epochs, starting from a known approximate value of the period of revolution. This method, although unobjectionable when physical and astronomical quantities are to be determined, where, owing to the method of observation, the error committed is small with respect to the quantity to be calculated, still necessarily leads to uncertain results when meteorological data are concerned, where individual observation of the investigated phenomenon, in the proper sense of the word, does not take place, but, on the contrary the errors (in casu the adventitious disturbances) are large with respect to the quantities which are sought for.

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Proof will be given from the following results that, for an exact determination of the epoch a very large bulk of observations has to be taken into account; when a limited series is employed the error committed in calculating the epoch may be so large as to attain almost any value between zero and 2π and the resulting value for the period of rotation deduced in this way bears rather a conventional than a real character. As it is, I do not think that a series of observations is anywhere in existence long enough to suffer division into two groups from each of which the epoch may be determined with sufficient accuracy. Perhaps the series of magnetic observations made at the Pawlowsk observatory may be found to be the only one which satisfies this peremptory condition for the application of this method.

As to meteorological data, it is not to be expected that the very minute influence can be detected from any other observations than those made at a tropical station and even this only when those observations are extended over a very long period.

2. The data to which the proposed new method is applied are:
   1°. the daily means of barometric pressure,
   2°. the daily range of the same,
   3°. the daily means of atmospheric temperature,
   4°. the daily range of the same.

For each of these quantities 7740 data were available i. e. the number of days from the first day of January 1866 till March, 11, 1887.

They have been arranged according to the number 25.8 in tables containing 26 vertical columns by leaving a blank in the 14th column of the 3rd, 8th, 13th, etc, horizontal file. In this way ten tables of 30 horizontal lines each are obtained which have been summed up separately.

If n be the angular variation during one solar day and the tabulation be assumed to be continuous, the sum of the first group of 30 files will be, in accordance with (1):

$$A \frac{\sin. 30 \times 12.9\ n}{\sin. 12.9\ n} \sin. \left\{ \frac{25.8}{26} nx + C + 29 \times 12.9\ n \right\},$$

generally the sum of the pth group will be:

$$A \frac{\sin. 30 \times 12.9\ n}{\sin. 12.9\ n} \sin. \left\{ \frac{25.8}{26} nx + C + 29 \times 12.9\ n + 30\ (p - 1) \times 25.8\ n \right\}$$

In order to calculate from the 10 formulae thus obtained the unknown value n, a quantity $(p - 1)\ \rho\alpha$ is added to each argument, in which α is an arbitrary angle, conveniently chosen, and ρ a whole number positive or negative. The total sum of the ten groups taken conjointly will be represented by the expression:

(1) Sitzb. der Kais. Acad. *Wien* Bnd XCVI. Nov. 1887.

$$A \frac{sin.\ 30 \times 12.9\ n}{sin.\ 12.9\ n.} \frac{sin.\ 10\ (30 \times 12.9\ n + 0.5\ \rho\alpha)}{sin.\ (30 \times 12.9\ n + 0.5\ \rho\alpha)} \times sin. \left\{ \frac{25.8}{26} n.x + C + 299 \times 12.9\ n + 4.5\ \rho\alpha \right\} \ldots\ldots (4)$$

This sum is the analytical expression of the sums obtained if the ten groups, each arranged according to the number 25.8, are combined in such a way as to correspond with an arrangement according to a number:

$$25.8 + \frac{\rho\alpha}{30\ n}.$$

Therefore by adopting different values ρ_1, ρ_2, ρ_s, S values are obtained corresponding with arrangements of the groups according tho the numbers:

$$25.8 + \frac{\rho_1\alpha}{30\ n}.$$

$$25.8 + \frac{\rho_2\alpha}{30\ n}.$$

etc.

In practice for each of the sums of groups the constants of *Bessel's* formula are calculated in the usual way; to α the value:

$$0.3 \times \frac{360^\circ}{26} = 4^\circ.1538$$

to ρ the whole numbers from —4 to + 6 have been assigned, these values having been chosen thus, because they correspond with an arrangement according to periods of about 25.76 — 25.86 days. Thus for $\rho = 0$ the 10 formulae have been simply added, for $\rho = + 1$ the argument of the second formula has been augmented with 4°9′, that of the third formula with 8°18′, of the fourth with 12°28′, etc., and the ten formulae thus obtained again summed up. In this manner eleven amplitudes and eleven arguments C' are obtained corresponding with the amplitudes and arguments of the formula (4). When the number of data taken into account is sufficient to eliminate disturbing influences, the differences between the arguments of two subsequent formulae ought therefore to be $4.5\alpha = 18^\circ 42'$.

The more or less complete compliance with this exigency will afford a criterion of the reliance which may be placed on the results. In practice this will generally not be the case because the ten amplitudes will show differences inter se, which will be the greater, the smaller the real value of this quantity and the greater the variability of the element.

In calculating the constants of *Bessel's* formula the same error is committed to which attention was called in discussing the *Hornstein* method, but it is easily conceivable that the expressions:

$$\Sigma\ sin.\ \frac{25.8}{26} n.x.\ sin.\ \frac{2\pi}{26} x$$

$$\Sigma\ cos.\ \frac{25.8}{26} n.x.\ cos.\ \frac{2\pi}{26} x$$

are so nearly equal to 13 and

$$\Sigma\ sin.\ \frac{25.8}{26} n.x.\ cos.\ \frac{2\pi}{26} x$$

$$\Sigma\ cos.\ \frac{25.8}{26} n.x.\ sin.\ \frac{2\pi}{26} x$$

to zero, in consequence of n being very nearly equal to $\frac{2\pi}{25.8}$, that the error of the calculated quantities will have no sensible influence.

By equalizing the eleven amplitudes thus calculated to the corresponding theoretical amplitudes of formula (4), eleven equations are obtained from which the value of n has to be derived by means of the method of the least squares.

By putting

$$n = \frac{2\pi}{25.8} + \xi$$

the equation (4) assumes a simpler form because the angular quantities larger than 360° are done away with, viz.

$$A \frac{sin.\ 387\ \xi}{sin.\ 12.9\ \xi} \frac{sin.\ 10\ (387\ \xi + 0.5\ \rho\alpha)}{sin.\ (387\ \xi + 0.5\ \rho\alpha)} sin.\ n.x + C + 299 \times 12.9\ \xi + 4.5\ \rho\alpha$$

or putting:

$$A \frac{sin.\ 387\ \xi}{sin.\ 12.9\ \xi} = Ak = X_1$$

the eleven equations assume the form

$$m_\rho = X_1 \frac{sin.\ 10\ (387\ \xi + 0.5\ \rho\alpha)}{sin.\ (387\ \xi + 0.5\ \rho\alpha)} \ldots\ldots\ldots\ldots\ldots\ldots (5)$$

In order to deduce from these equations the values of the unknown quantities X_1 and ξ two ways of proceeding present themselves; the first is to put:

$$m_\rho = A + B\rho + C\rho^2 \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (6)$$

to calculate, after the method of the least squares, the coëfficients A, B and C from the eleven equations and to determine the value ρ_1 for which the expressions (6) attains its maximum value m_1:

$$\rho_1 = -\frac{B}{2C}.$$

It is evident that, for $\rho = \rho_1$, the sine-function (5) must attain its maximum value equal to ten, which is possible only when

$$387\ \xi + 0.5\ \rho_1\alpha = 0$$

$$\xi = -\frac{0.5\rho_1\alpha}{387}\quad X_1 = \frac{m_1}{10}$$

$$A = \frac{m_1}{10}\cdot\frac{sin.\ 12.9\ \xi}{sin.\ 387\ \xi}\ldots\ldots\ldots\ldots(7)$$

The second method, which is to be preferred when both α and ξ are small, is to expand the expression (5) not, as has been done in the first method, in a series of ascending powers of ρ but of ξ. We have:

$$\frac{sin.\ p\sigma}{sin.\ \sigma} = p - \frac{p\ (p^2 - 1)}{6}\sigma^2 + \frac{3p^5 - 10p^3 + 7p}{360}\sigma^4$$

$$\frac{sin.\ 10\sigma}{sin.\ \sigma} = 10 - \mu\sigma^2 + \nu\sigma^4$$

$$\sigma = 0.5\ \rho\alpha + 387\xi = a + b\xi$$

$$\mu = 165,\ \nu = 805.75,\ a = 0.5\ \rho\alpha,\ b = 387.$$

$$\frac{sin.\ 10\sigma}{sin\ \sigma} = 10 + \nu a^4 - \mu a^2 + 2\ b\xi\ (2\nu a^3 - \mu a) + \text{etc}.\ldots\ldots\ldots\ldots(8).$$

When a and ξ are small, the expansion may be stopped at the term containing the first power of ξ; putting

$$2\ b\ \xi\ X_1 = X_2.$$

we again obtain eleven equations:

$$m_\rho = (10 + \nu a_\rho^4 - \mu a_\rho^2)\ X_1 + (2\nu a_\rho^3 - \mu a_\rho)\ X_2\ldots\ldots\ldots\ldots\ldots\ldots(9)$$

from which the quantities X_1 and X_2 are to be calculated, after which ξ is found by the formula:

$$\xi = \frac{X_2}{774\ X_1}$$

The period of the variation R is given by the expression:

$$R = \frac{25.8\ \pi}{\pi + 12.9\ \xi}\ldots\ldots\ldots\ldots\ldots\ldots(10)$$

When α is, as in our case, equal to about four degrees, either method gives reliable results and therefore only one, the second, has been applied. Generally however the first method will prove to be the more advantageous. When however ξ is not very small, neither of the formulae (6) or (8) will give an accurate representation of the values of the expanded function:

$$\frac{sin.\ p\sigma}{sin.\ \sigma} = p - \mu\sigma^2 + \nu\sigma^4 - \zeta\sigma^6 + \text{etc.}$$

because in formula (6) the value of the constants is:

$A = p - \mu b^2\xi^2 + \nu b^4\xi^4 - \zeta b^6\xi^6 + \text{etc.}$
$B = -2\alpha\mu b\xi + 4\alpha\nu b^3\xi^3 - 6\alpha\zeta b^4\xi^4 + \text{etc.}$
$C = -\alpha^2\mu + 6\alpha^2\nu b^2\xi^2 - 15\ \alpha^2\zeta b^4\xi^4 + \text{etc.}$
$D = 4\alpha^3\nu b\xi - 20\alpha^3\zeta b^3\xi^3 + \text{etc.}$
$E = -15\alpha^4\zeta b^2\xi^2$

from which it is evident that the series obtained by expansion in ascending powers of ρ may be stopped at the third term only when $b\xi$ is small; if therefore the formula (6) appears to give values for m not closely approximating to the quantities m numerically found, this has to be considered as a proof that the approximate value of R according to which the tabulation has been effected (in our case 25.8) has not been chosen judiciously and a re-arrangement according to the approximate value given by formula (10) wil be necessary.

In this case however when ξ is not very small, the tedious labour of a re-arrangement might be avoided by adding terms, containing the higher powers of ξ, to formula (8) and substituting for ξ the value:

$$\xi_1 + \Delta$$

in which ξ_1 denotes the very approximate value indicated by the results of the additions: if for instance a maximum value is found for $\rho = +5$ this value of ξ_1 is given by the equation:

$$\xi_1 = -\frac{0.05 \times 2\ \pi}{25.80 \times 23.85}$$

By substituting this value and rejecting the terms containing the higher powers of Δ, the eleven equations are again reduced to the first degree and, by repeating the operation, the approximation may be continued as far as convenient.

5. As the amplitudes of the periodical variations are very small, it has been deemed advisable to apply the usual method of control by dividing the ten groups into two equal parts and comparing the results. In order to

effect this in such a way that a possible influence of the frequency of sunspots may be excluded as completely as possible, the two groups have been formed by combining the five odd and the five even numbers of groups separately. Instead of the formula (4) we find for the even numbers:

$$X_1 \frac{\sin. 5\ (774\ \xi + \rho\alpha)}{\sin\ (774\ \xi + \rho\alpha)} \sin.\ (nx + C + 529 \times 12.9\ \xi + 5\ \rho\alpha) \ldots\ldots\ldots (11)$$

for the uneven numbers:

$$X_1 \frac{\sin. 5\ (774\ \xi + \rho\alpha)}{\sin.\ (774\ \xi + \rho\alpha)} \sin.\ (nx + C + 269 \times 12.9\ \xi + 4\ \rho\alpha) \ldots\ldots\ldots (12)$$

for the first series the difference between two subsequent arguments must be:

$$5\ \alpha = 20°46'$$

for the second series:

$$4\ \alpha = 16°37'$$

The quantity ξ is calculated in the same way as has been demonstrated, by means of the eleven formulae (9) in which now the constants assume the values:

$$\mu = 20,\ \nu = 22.67,\ a = \rho\alpha,\ b = 774.$$

It appears from the formulae (11) and (12) that the difference between the arguments of the two series ought to be:

$$\Delta = 60 \times 12.9\ \xi + \rho\alpha;$$

when, therefore, the results given by both series are conclusive to such a degree as to show constant values for the quantity:

$$\Delta - \rho\alpha$$

this formula will afford a very simple and expeditious way of calculating ξ, which is identical with the usual method in physical and astronomical researches: it will appear however from the results given below that, in order to obtain such an accuracy, a hundred-yearly period would probably hardly be sufficient, and we have therefore to fall back upon the certainly less accurate method of deriving the quantity R from the amplitudes.

4 *a*. Daily means of barometric pressure.

The 10 formulae are:

	Amplitude. mm.	Argument.
N°. 1	0.685	194° 1′
2	7.629	149°30′
3	3.452	151°24′
4	3.139	7°40′
5	1.516	220°37′
6	2.076	232°19′
7	4.516	90°38′
8	1.207	331°53′
9	1.783	165°41′
10	6.313	117°47′

For the quantities m_ρ of formula (9) the calculated values are:

	mm.		Differences. $4.5\alpha = 18°42'$
$\rho = -4$	$m = 4.65$	$C = 63°59'$	
-3	9.51	79°28′	15°29′
-2	13.48	97°30′	18° 2′
-1	16.64	116°17′	18°47′
0	18.64	135°16′	18°59′
1	**19.31**	154° 9′	18°53′
2	18.58	172°55′	18°46′
3	16.54	191° 9′	18°14′
4	13.36	208°23′	17°14′
5	9.32	223° 5′	14°42′
6	4.94	228° 7′	5° 2′

It appears from the regular way in which the quantities m and C progress, that notwithstanding the large discrepancies between the amplitudes of the 10 formulae corresponding to the ten groups, the whole series is long enough to cause an almost perfect elimination of disturbing influences. The quantities m being the sums corresponding to about 300 revolutions, the amplitude is about 0.06 millimetres, a quantity of the same order as the amplitude of the variation caused by lunar influence.

By application of the formulae (9) aud (10) we find:

R = 25.8070 days.
X_1 = 1.557
A = 0.052 millimetres.

The even-numbered formulae give:

		mm.		Differences. $5\alpha = 20°46'$
$\rho = -4$	$m =$	0.68	C 123°41′	
				306°40′
-3		3.63	76°18′	
				16°14′
-2		6.57	92°32′	
				18°11′
-1		8.81	111°23′	
				19°24′
0		10.12	130°47′	
				19°24′
1		**10.40**	150°11′	
				19°23′
2		9.56	169°34′	
				18°39′
3		7.70	188°13′	
				16°35′
4		4.96	204°48′	
				0°42′
5		1.67	205°30′	
				67° 3′
6		2.47	272°33′	

R = 25.8040 days.
X_1 = 1.391
A = 0.046 millimetres.

For the uneven-numbered formulae we find:

		mm.		Differences. $4\alpha = 36°37'$
$\rho = -4$	$m =$	4.43	$C =$ 58°45′	
				22°42′
-3		5.78	81°27′	
				20°45′
-2		6.97	102°12′	
				19°34′
-1		7.90	121°46′	
				18°46′
0		8.59	140°32′	
				18°13′
1		8.97	158°45′	
				17°42′
2		**9.06**	176°27′	
				17°15′
3		8.86	193°42′	
				16°48′
4		8.41	210°30′	
				16°20′
5		7.75	226°50′	
				15°45′
6		6.93	242°35′	

R = 25.8203 days.
X_1 = 1.807
A = 0.060 millimetres.

b. Daily range of barometric pressure.

Formulae:

	Amplitude. mm.	Argument.
N°. 1	1.116	96°54′
2	0.674	25° 0′
3	1.163	163°47′
4	1.116	355°19′
5	0.919	343°16′
6	0.888	346°47′
7	1.282	354°43′
8	1.106	49°24′
9	0.336	323° 0′
10	0.760	350°18′

All formulae:

	mm.		Differences. $4.5\alpha = 18°42'$
$p = -4$	$m = 3.24$	$C = 261°\ 8'$	
			$33°54'$
-3	3.59	$295°\ 2'$	
			$30°32'$
-2	4.16	$325°34'$	
			$26°55'$
-1	4.83	$352°29'$	
			$24°\ 4'$
0	5.45	$16°33'$	
			$22°\ 5'$
1	5.94	$38°38'$	
			$20°45'$
2	6.22	$59°23'$	
			$29°45'$
3	**6.23**	$79°\ 8'$	
			$18°58'$
4	5.98	$98°\ 6'$	
			$16°48'$
5	5.77	$114°54'$	
			$18°45'$
6	4.74	$133°39'$	

$R = 25.8232$ days.
$X_1 = 0.610$
$A = 0.020$ millimetres.

Even formulae:

	mm.		Differences. $5\alpha = 20°46'$
$p = -4$	$m = 3.12$	$C = 287°31'$	
			$20°33'$
-3	3.54	$308°\ 4'$	
			$20°35'$
-2	3.86	$328°29'$	
			$20°35'$
-1	4.06	$349°14'$	
			$20°36'$
0	**4.12**	$9°50'$	
			$20°32'$
1	4.02	$30°22'$	
			$20°29'$
2	3.63	$50°51'$	
			$20°18'$
3	3.37	$71°\ 9'$	
			$19°59'$
4	2.84	$91°\ 8'$	
			$16°39'$
5	2.52	$107°47'$	
			$19°41'$
6	1.51	$127°28'$	

$R = 25.7999$ days.
$X_1 = 0.844$
$A = 0.028$ millimetres.

Uneven formulae:

	mm.		Differences. $4\alpha = 16°37$
$p = -4$	$m = 1.46$	$C = 188°37'$	
			$26°14'$
-3	0.81	$214°51'$	
			$76°35'$
-2	0.37	$291°26'$	
			$77°36'$
-1	0.81	$9°\ 2'$	
			$26°33'$
0	1.45	$35°35'$	
			$19°25'$
1	2.05	$54°\ 0'$	
			$17°\ 1'$
2	2.56	$72°\ 1'$	
			$16°17'$
3	2.94	$88°18'$	
			$16°\ 1'$
4	3.18	$104°19'$	
			$16\ \ 2'$
5	**3.28**	$120°21'$	
			$16°13'$
6	3.24	$136°34'$	

$R = 25.8544$ days.
$X_1 = 0.456$
$A = 0.015$ millimetres.

c. Daily means of the temperature of the air expressed in Fahrenheit degrees.

Formulae:

N°.	1	3.°40	229°39′
	2	4.27	13°25′
	3	4.10	124°16′
	4	9.35	39° 4′
	5	4.76	272°32
	6	5.94	3°17′
	7	2.40	107°27′
	8	4.22	141°15′
	9	2.84	253° 2′
	10	9.22	1°15′

All formulae:

			Differences.
			$4.5\alpha = 18°42'$
$\rho = -4$	$m = 9.°98$	$C = 299°20'$	15° 8′
-3	12.82	314°28′	19°21′
-2	15.25	333°49′	21°30′
-1	17.13	355°19′	23° 3′
0	18.60	18°22′	23° 6′
1	**18.84**	41°28′	23°34′
2	18.69	65° 2′	23°22′
3	17.84	88°24′	22°35′
4	16.28	110°59′	20°58′
5	14.11	131°57′	17°52′
6	11.42	149.49′	

$R = 25.8133$ days.
$X_1 = 1.884$
$A = 0.063$ Fahrenheit degrees.

Even formulae:

			Differences.
			$5\alpha = 20°46'$
$\rho = -4$	$m = 11.°34$	$C = 313°52'$	14° 2′
-3	18.72	327°54′	17° 5′
-2	21.86	344°59′	18°43′
-1	24.15	3°42′	19°52′
0	**25.64**	23°34′	20° 5′
1	25.36	43°39′	20°29′
2	24.14	64° 8′	20°31′
3	21.77	84°39′	20°10′
4	18.41	104°49′	19° 3′
5	14.32	123°52′	15°52′
6	9.84	139°44′	

$R = 25.8045$ days.
$X_1 = 4.769$
$A = 0.159$ Fahrenheit degrees.

Uneven formulae:

			Differences. $4\alpha = 16°37'$
$\rho = -4$	$m = 6.^{\circ}02$	$C = 158°33'$	$14°49'$
-3	6.93	$173°22'$	$14°50'$
-2	7.50	$188°12'$	$14°50'$
-1	**7.62**	$202°52'$	$14°\ 1'$
0	7.31	$216°53'$	$13°\ 0'$
1	6.56	$229°53'$	—
2	5.46	$241°\ 5'$	—
3	4.14	$248°20'$	—
4	2.83	$246°42'$	—
5	2.02	$224°\ 0'$	—
6	2.38	$196°\ 5'$	

$R = 25.7959$ days.
$X_1 = 1\ 403$
$A = 0.147$ Fahrenheit degrees.

d. Daily range of the temperature of the air, expressed in Fahrenheit degrees.

Formulae:

N°.			
	1	$4.^{\circ}900$	$170°12'$
	2	5.029	$25°23'$
	3	10.309	$113°25'$
	4	9.964	$12°16'$
	5	4.064	$167°18'$
	6	11.045	$24°45'$
	7	4.625	$132°19'$
	8	3.434	$86°10'$
	9	8.861	$279°15'$
	10	7.250	$305°47$

All formulae:

			Differences. $4.5\alpha = 18°42'$
$\rho = -4$	$m = 11.^{\circ}74$	$C = 49°\ 9'$	
-3	9.40	$48°31'$	—
-2	9.78	$36°39'$	—
-1	11.97	$37°17'$	—
0	18.78	$40°50'$	—
1	24.26	$55°57'$	$15°\ 7'$
2	29.88	$71°58'$	$16°\ 1'$
3	34.18	$90°\ 5'$	$18°\ 7'$
4	37.40	$110°53'$	$20°48'$
5	**38.23**	$127°57'$	$17°\ 4'$
6	37.63	$147°21'$	$19°24'$

$R = 25.8544$ days.
$X_1 = 2.702$
$A = 0.090$ Fahrenheit degrees.

Even formulae:

			Differences $5\alpha = 20°46'$
$\rho = -4$	$m = 20.^{\circ}19$	$C = 317°58'$	10°38'
-3	22.34	328°36'	12°46'
-2	24.87	341°22'	14°32'
-1	25.63	355°54'	16°43'
0	29.49	12°37'	18° 4'
1	30.43	30°41'	18° 8'
2	**31.21**	48°49'	19° 9'
3	30.47	67°58'	22°11'
4	28.37	90° 9'	17°12'
5	25.63	107°21'	20°34'
6	21.94	127°55'	

$R = 25.8153$ days.
$X_1 = 6.420$
$A = 0.214$ Fahrenheit degrees.

Uneven formulae:

$\rho = -4$	$m = 32.^{\circ}55$	$C = 108°\ 5'$
-3	22.68	124°23'
-2	20 90	138°43'
-1	18.45	150°29'
0	15.70	158° 9'
1	13.40	169° 3'
2	12.32	156°28'
3	12.92	152°41'
4	14.79	153°35'
5	16.86	180°15'
6	18.46	170°39'

5. It appears from these results that a periodical variation is observable in all the four different elements which have been subjected to this inquiry; the only series which does not show any trace of a maximum value is that of the uneven numbered group of the daily range of the temperature; but it is evident from the very irregular way in which the arguments proceed, that here large disturbing influences have come into play.

The strongest evidence of the real existence of the phenomenon is afforded by the daily means of barometric pressure; notwithstanding the large discrepancies between the amplitudes of the 10 formulae the quantities m and C proceed in a very regular way and almost exactly in accordance with the theory of the method: this however might be a chance phenomenon, but the fact, that in either of the two controlling groups the amplitudes show a maximum value and that in the three groups the arguments for $\rho = 1$ are respectively:

154°9' 150°11' 138°45'

i. e. about the same, which ought to be the case when, as in casu, ξ is very small, leaves no room for ambiguity in the interpretation of the results. Therefore, in deducing the most probable value of R, either the results of the whole series alone, or that of the three groups may be taken into account, but if the latter way is followed it must be remarked that, although the amplitude A calculated from the uneven series is larger than that deduced from the even series, the sums m are not so strictly in accordance with their theoretical values in the uneven groups as in the even series, because the quantities m for $\rho = -4$ and $+6$ ought to be very small: in consequence of this, a smaller weight has to be assigned to the value 25.8203 than to the value 25.8040.

A somewhat fainter evidence is afforded by the next element, the daily range of atmospheric pressure: the amplitude is so very small that in Appendix III of Volume IX (1) no trace of the phenomenon could be deduced from the results of an inquiry in which *Hornstein's* method was applied to five different years.

In the results given here however, undeniable proof is given of the existence of a periodical variation but the agreement between the results of the controlling groups is much less than for the daily means.

(1) I take this occasion to redress a lapsus calami in this Appendix; it was not shown by Prof. *Hann* that no twenty-six-day period existed, but that the daily range is not subjected to a periodical variation synchronous with the period of the sunspot cycle.

In each of the controlling groups a maximum value occurs; in the vicinity of this maximum the differences of two subsequent arguments are almost exactly equal to their theoretical values and here, as before, the arguments, corresponding to the same values of ρ, agree, though not so closely as in the case of the daily means. We find for $\rho = 1$ respectively:

$$C = 38°38', \qquad 30°22', \qquad 55°0'.$$

The fact therefore of the existence of a periodical influence on the daily range of the barometric height may be considered to be beyond the possibility of doubt, but, in comparing the values for R, deduced from these data, with those obtained from the daily means, a smaller weight has to be assigned to the former than to the latter.

In examining the results deduced from the daily means of the temperature of the air, we see that in the head-group, as well as in both controlling groups, a maximum value of the quantity m is observable, but the arguments of the even and uneven numbered groups being, for $\rho = 1$:

$$43°39' \quad \text{and} \quad 229°55'$$

the results of the groups contradict each other in this respect and the existence of the phenomenon might be subjected to some doubt, if the argument of the even group, where the differences too agree well with their theoretical value, did not show such a close concordance with the corresponding argument for the daily range of the barometric pressure, that it would be difficult to ascribe this agreement to chance only.

In consequence of these considerations the results derived from the even numbered groups have to be considered as the more reliable, because the results derived from the whole series are necessarily impaired by those of the uneven groups as, moreover, is evident from the deviations of the differences from their theoretical value.

The same remarks are applicable to the fourth element, the daily range of the temperature: here the results considered by themselves might be regarded as spurious because the group of uneven formulae does not show any trace of a periodical variation, but the fact that it is well marked in the even group and that the argument again agrees with the corresponding arguments of the two preceding elements, affords almost undeniable evidence for the reality of the phenomenon.

The outcome of this discussion of the results obtained may justify the following way of deducing the most probable value of R, which necessarily is somewhat arbitrary:

Daily means, barometer	$R = 25.8070$	weight = 1.00
Idem, even groups	25.8040	0.50
Idem, uneven groups	25.8203	0.25
Daily range, barometer	25.8232	0.30
Idem, even groups	25.7999	0.15
Idem, uneven groups	25.2544	0.15
Daily means, therm. even groups	25.8045	0.30
Daily range, therm. even groups	25.8153	0.30

The mean value thus obtained is:

$$R = 25.8120 \text{ days.}$$

If we adopt this value as the most reliable, the epoch, i. e. the phase of the curve on January the first 1866 at noon may be calculated by adding the angular quantities:

$$\begin{aligned} &- 299 \times 12.9\,\xi - 4.5\alpha \\ &- 329 \times 12.9\,\xi - 5.0\alpha \\ &- 269 \times 12.9\,\xi \quad 4.0\alpha \end{aligned}$$

to the arguments corresponding with $\rho = 1$ of the three groups:

$$\xi = -\frac{0.012 \times 360^\circ}{25.812 \times 25.800} = -0^\circ.006487.$$

We find then:

1.	Daily means barometer	160°28'	
	Idem, even groups	156°57'	164°4'
	Idem, uneven groups	164°39'	
2.	Daily range, barometer	44°57'	
	Idem, even groups	57° 8'	
	Idem, uneven groups	60°54'	45°28'
3.	Daily means, therm. even groups	50°25'	
4.	Daily range therm. even groups	57 27'	

The mean values have been calculated in the same way as the probable value of R, by assigning the same weights to the different angles as have been given to the values of R. The agreement of the different values deduced from the independent groups is very satisfactory, and it must be considered as a well proved fact that the barometric range, the mean temperature and the thermometric range are subjected to the same periodical variation, all three increasing and decreasing at the same time; the mean atmospheric pressure however, although subject to a variation of the same period, attains its maximum values at epochs which differ from those of the other elements, thus indicating that the influence on the latter may be ascribed to the same immediate cause, the temperature for instance, whereas the influence on the barometric daily means has to be derived from another source.

6. The question of the accuracy which must be ascribed to the value:

25.812

is a very difficult one because it is dependent on many factors and cannot well be solved by theoretical considerations, the most influential factor being the variability of the element which it is difficult to represent by a suitable analytical expression. I have therefore, in order to come to an approximate answer tho this question, followed the practical way by applying the method to an analogous problem the solution of which is known.

The chosen problem is to determine the duration of the moon's synodic revolution about the earth by means of hourly barometric observations made from January the first 1886 till November the fourth of the same year. This problem shows great analogy to that discussed in this paper, as the amplitude of the lunar atmospheric tide is about 0.06 millimetres and therefore about the same as that of the periodical variation of barometric daily means caused by the sun's revolution about its axis.

Here too an approximate value, 24.8 solar hours, can be assumed to be known by the simple observation of the fact that after 29 or 30 days the lagging behind of the moon with respect to the sun amounts to a whole revolution and, finally the number of records is 7440, a number somewhat less than that employed in the former inquiry: the only essential difference is this, that here the double periodical is prevalent over the simple periodical variation, whereas in the former case the latter dominates.

From the tables in which the barometric observations are tabulated according to the lunar hours, the following formula, calculated for the ten-monthly period mentioned and reduced to the epoch January the first at 1 a. m. is derived:

mm.

$$0.067 \; sin. \; (2nx + 213°);$$

the true value of R is 24.8412 solar hours.

The way in which this problem has been worked out is exactly the same as that followed in the preceding chapters:

If we put:

$$n = \frac{360°}{24.8} + \xi, \qquad K = \frac{sin. \; 744 \; \xi}{sin. \; 24.8 \; \xi}.$$

we find for the sums of the ten groups taken conjointly:

$$AK \frac{sin. \; 10 \; (744 \; \xi + 0.5 \; \rho\alpha)}{sin. \; (774 \; \xi + 0.5 \; \rho\alpha)} \; sin \; (2nx + C + 299 \times 24.8 \; \xi + 4.5 \; \rho\alpha)$$

for that of the even groups:

$$AK \frac{sin. \; 5 \; (1488 \; \xi + \rho\alpha)}{sin. \; (1488 \; \xi + \rho\alpha)} \; sin. \; (2nx + C + 329 \times 24.8 \; 4\xi + 5\rho\alpha)$$

for the uneven numbered groups:

$$AK \frac{sin. \; 5 \; (1488 \; \xi + \rho\alpha)}{sin. \; (1488 \; \xi + \rho\alpha)} \; sin. \; (2nx + C + 269 \times 24.8 \; \xi + 4\rho\alpha).$$

The variation being double-periodic, the value chosen for α had to be taken twice as large as that adopted in the former problem in order to correspond with an increase of about 0.01 hours in the arrangement; to ρ the ten positive values 0—9 have been assigned. For simplicity's sake I took:

$$\alpha = 80°30'.$$

The constants of the ten formulae are:

		mm.	
N°.	1	0.186	158°15′
	2	3.224	191°59′
	3	1.874	120°24′
	4	1.612	112°49′
	5	3.024	63°34′
	6	1.971	1°19′
	7	2.588	8° 8′
	8	1.913	283°36′
	9	2.097	270°33′
	10	1.458	256°21′

The resultant formulae for different values of ρ are:

		mm.		Differences. $4.5\alpha = 38°15'$
$\rho = 0$	$m =$	1.13	$C' =$ 12°48′	—
1		6.11	74°14′	—
2		11.56	116°38′	—
3		16.15	157°23′	39°59′
4		18.69	197°22′	39°20′
5		18.58	236°42′	38°32′
6		15.92	275°14′	—
7		9.22	317°46′	—
8		6.36	344°35′	—
9		2.07	353° 7′	

In calculating ξ from the 10 equations to which these amplitudes give rise the first method has been followed by calculating the value of the constants of the equation:

$$m_\rho = A + B\rho + C\rho^2$$

we find:

$$A = - 1.801$$
$$B = + 9.318$$
$$C = - 1.037$$

from which we derive, when C_1 denotes the argument at the epoch January 1st 1 a. m.

$\rho_1 = 4.4928$ $\quad K = 29.47$
$R = 24.8439$ hours $\quad A = 0.065$ mm.
$C_1 = 235°10'$

Even formulae:

	mm.		Differences. $5\alpha = 42°30'$
$\rho = 0$	$m = 2.95$		
1	0.38		
2	3.73		
3	7.05	$C = 160°24'$	$38°\ 2'$
4	9.14	$198°26'$	$36°19'$
5	9.58	$234°45'$	$33°35'$
6	8.40	$268°20'$	
7	3.77		
8	3.99		
9	2.81		

$A = - 0.407$ $\quad \rho_1 = 4.7243$ $\quad K = 29.36$
$B = 3.770$ $\quad R = 24.8461$ hours $\quad A = 0.061$ mm.
$C = - 0.399$ $\quad C_1 = 242°14'$

Uneven formulae:

	mm.		Differences. $4\alpha = 34°0'$
$\rho = 0$	$m = 3.87$		
1	5.94		
2	7.84		
3	9.13	$C' = 155°\ 4'$	$41°17'$
4	9.55	$196°21'$	$42°28'$
5	9.02	$238°49'$	$43°56'$
6	7.65	$282°45'$	
7	5.73		
8	3.63		
9	1.81		

$A = 3.021$ $\quad \rho_1 = 4.1170$ $\quad K = 29.52$
$B = 3.268$ $\quad R = 24.8402$ hours $\quad A = 0.066$ mm.
$C = 0.397$ $\quad C_1 = 217°14'$

Recapitulating we find:

		R	A	C_1
True value		24.8412	0.067	213°
Calculated value	all formulae	24.8439	0.065	235°
	even formulae	24.8461	0.061	242°
	uneven formulae.	24.8402	0.066	217°

It appears from these results that at *Batavia*, where the disturbing influences are very small, the error committed in calculating a double periodical variation, the amplitude of which is about 0.05 millimetres, does not exceed a three thousandth part of the adopted unit of time, when a number of about 7400 observations is taken into account. The error to be expected when only a five-monthly series is employed, is about 0.005 hours: the calculated amplitude is practically equal to the value obtained by arrangement according to the true value, the error of the epoch may amount to 25 degrees, in this case corresponding to about 50 minutes, mean solar time.

When comparing this result with that obtained in calculating the exact duration of the twenty-six-day period, we have to remark that in the latter case the variation is simply periodic and the number of revolutions of the phase therefore twice as small as in the case of the moon's revolution. If we assume therefore, that, in calculating the twenty-six-day period, the error committed is twice as large and suppose the error to be inversely proportional to the number of observations taken into account, we find as an estimate of the error committed:

$$0.0027 \times \frac{7440}{7740} \times 2 = 0.00548.$$

The value 25.8120 having been deduced not only from barometric daily means, but from several independent series, we may safely assume that, in determining this quantity, an accuracy of $\pm$ 0.005 days is secured. As to the epoch it is at once evident from the formulae that an error in the quantity ξ leads to a corresponding error in the determination of the epoch twice as large, when the variation is double- as when it is simple-periodic, consequently the errors of the values found for the epochs will hardly exceed 10 degrees i. e. less than one day.

7. This conclusion bears necessarilly a somewhat arbitrary character, but in any case it is evident that the mean period of duration of the variation deduced from meteorological data is considerably smaller than that calculated from magnetical data, which is about 25.86 days, for it is sufficiently proved by the results of this inquiry that an error of 0.05 days is out of the question. On the contrary, if an error has been committed at all, it certainly is on the side of the value 25.86 in consequence of the inadequate method by which it has been deduced.

It is of some importance however to remark that, as far as up to the present our knowledge of the sun's constitution goes, it is not peremptorily necessary that the value, deduced from magnetical data, be identical with that calculated from meteorological observations. It is highly probable that the different layers of the sun are moving with different angular velocities, the smaller the farther the distance from the centre, an assumption consistent with the determination of the angular velocity of the faculae by the Kew-astronomers, that of the sunspots by *Carrington*, *Faye* and *Spörer* and the views generally held at present about the nature of the sunspots. The causal connection existing between faculae and sunspots and magnetical variations makes it probable that the period of variation based on magnetical inquiries will correspond with the period of rotation of the more distant layers in which the sunspots and the faculae occur; on the other hand a direct connection between sunspots and meteorological elements has not been stated and it is therefore quite possible that the cause of the influence discussed in this paper has to be sought for in the lower regions of the photosphere, rotating with greater angular velocity. An attempt to obtain an answer to this question by applying the method employed here to the five-yearly series of magnetical observations made at *Batavia* from April 1885 til March 1887, failed because the results of this inquiry still wanted the congruity necessary for publication.

The preliminary results are that the periodical variation of the daily means, if existing at all, is too small with respect to the degree of exactness obtainable in the absolute determinations, to afford a suitable matter for this inquiry: the daily variations however, the accuracy of which is much greater, exhibit an unquestionable periodic variation and will probably afford sufficient evidence, when a ten-yearly series can be taken into account.

In comparing the value of $R = 25.812$ days with the values found by means of sunspot observations, it has to be remarked in the first place that this value must be considered as corresponding with synodical rotation, the siderical period being 24.108 days; in the second place that the different formulae given by *Carrington* and *Faye* for the period of rotation being deduced from observations for the greater part made in heliocentric latitudes between 10 and 30 degrees are applicable to these zones alone and for the equatorial zones give values considerably differing from those found by direct observation by Prof. *Spörer* who, for the heliocentric latitude 1° 33′ North finds a period of 24.54 days. The value 24.108 days, if considered to represent the period of rotation for equatorial zones, is therefore not more in discordance with the results of direct observation than might be expected from the totally different modes of calculation.

A second question bears relation to a possible influence of the frequency of sunspots on the period of rotation, an influence which seems to be observable, and that in no inconsiderable degree, in the values for this period deduced from sunspot observations by M^{r}. *Bèlopolsky* [1] who finds a greater angular velocity when the quantity of spots is a minimum than when it attains a maximum value.

The mean monthly relative number of sunspots taken from Prof. *Wolf's* tables, corresponding with the ten groups, are:

N°.	
1	12.1
2	65.9
3	119.9
4	73.4
5	21.2
6	16.5
7	15.7
8	55.2
9	61.2
10	46.6

The mean value for the groups 1, 5, 6, 7, 10 is: 22.42 that for the groups 2, 3, 4, 8, 9: 75.12.

The following table shows the sums for different values of ρ relating to these two series for barometric means and barometric ranges:

[1] Bulletin astronomique. Tome IV. Févr. 1887.

	Daily Means		Daily range	
	minimum.	maximum.	minimum.	maximum.
	mm.		mm.	
$p = -4$	6.50	7.76	2.48	1.20
-3	6.82	8.40	2.52	1.36
-2	7.55	8.84	2.77	1.67
-1	8.52	9.13	3.19	1.85
0	9.50	**9.22**	3.66	1.97
1	10.34	9.12	4.08	**2.03**
2	10.81	9.04	4.37	2.01
3	**10.97**	8.98	**4.49**	1.92
4	10.77	13.81	4.41	1.77
5	10.25	9.53	4.48	1.56
6	9.52	10.22	3.75	1.30

It would appear from these tables that, on the contrary, a minimum of sunspots corresponds with a smaller angular velocity than that corresponding with a period of great sunspot-frequency, and also, from both elements, that in the former case the phenomenon is better marked and of greater amplitude than in the latter.

The data of these tables, however, have not been discussed by application of the formula because no guarantee of the reality of these results can be afforded until a series of meteorological observations made at a tropical station, such as *Batavia*, is available, twice as long as that employed in this paper.

Batavia, June 1888.

OBSERVATIONS

MADE AT THE

MAGNETICAL AND METEOROLOGICAL OBSERVATORY

AT

BATAVIA.

UNIVERSITY OF ILLINOIS LIBRARY
SEP 1 1921

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PREFACE.

The hourly observations and photographic records of meteorological and magnetical elements, as well as the summarizing Tables in the results, are printed in this volume according to the plan adopted in Vol. IX of the Observations.

Towards the end of 1887 a sunshine recorder of JORDAN's pattern was installed on the top of the anemometer-tower; the cyanotype sheets however, which had been sent out with the instrument and orginally gave good records, did not keep, though well preserved in a dry place; so the records of the first months of 1888 were too unsatisfactory to admit of publication. Therefore, in order to obtain good and constant records of this important climatological factor, it appeared necessary not to rely on the paper manufactured for commerce, but to devise a plan of having a set of sheets with short intervals sensitized by the staff of the Observatory. Since June 1888 very satisfactory results have been obtained by preparing fresh papers every week: in this way sheets of very constant sensibility are obtained, giving sharply defined blue lines on a white ground; thus not only allowing records of the bright sunshine to be obtained, but also, by application of colorimetric taxation, a measure of the intensity of the sunshine when, as is mostly the case in this climate, the sun is slightly veiled by very thin clouds. By dipping the papers, after development, for a few seconds in diluted sulphuric acid, the blue traces are considerably intensified.

The readings of the black bulb thermometer having been given half-hourly since April, the records of the sunshine are given in the same manner: in this way the early morning hours are omitted but, the length of the day being almost equal for every time of the year, this drawback is unimportant and is amply counterbalanced by the advantage obtained viz. that the maximum duration of sunshine for the whole day is always the same and equal to 160, and that therefore the ratio of the actual to the possible duration, expressed in percentages, may be immediately taken from the tables by omitting the decimal point from the daily means.

The electrometer gave, during this year, fairly satisfactory results; the reduction to absolute measure was effectuated by weekly deviations caused by LATIMER CLARK and DANIËLL batteries of known potential. In order however to obtain reliable and comparable results the instrument requires the most scrupulous and continuous care and it would be a great improvement if the different insulating parts could be superseded by quartz ones, the perfect insulating capacity of which has been recently demonstrated.

As in the foregoing volume the results of the electrical observations are given for every day and for non-rainy hours separately, in imitation of the Greenwich publications. The attention of

meteorologists is drawn to the fact that, at Batavia, the daily variation of the electric potential does not run parallel with that of the barometer, any more than with any other meteorological element, as is frequently asserted.

As regards the magnetical records and results, it must be remarked that after the repolishing of the steel knife of the balance-magnet belonging to the set of magnetometers of WILD's pattern, the results appear to be somewhat better than before, but that still those of the magnetograph are much more reliable.

In the 34th and following tables the components:

$$a_1 = A_1 \sin C_1, \quad b_1 = A_1 \cos C_1$$
$$a_2 = A_2 \sin C_2, \quad b_2 = A_2 \cos C_2$$

and the constants A and C are given of the periodic formula:

$$A_1 \sin (nt + C_1) + A_2 \sin (2nt + C_2)$$

representing the daily variation of the magnetic elements for every month.

I venture to think that the large amount of labour bestowed upon these calculations will be appreciated by present and future magneticians, who will find ready material for their investigations in these tables. The computations have been made in duplicate, all calculations in fact of every description being made independently by two different computers.

The calculation of these quantities was, for the greater part, already completed when I received Dr. AD. SCHMIDT's paper: Der tägliche Gang der erdmagnetische Kraft in Wien und Batavia in seiner Beziehung zum Fleckenstand der Sonne (Sitzungsber. der Kais. Akad. d. W. in Wien, Bnd XCVII, 1888) in which the same quantities for some months of the years 1882—1885 are calculated for the three magnetic elements.

Investigations of this kind and equally inquiries about the nature of the simple- and double-periodic factors, which may be proved to be quite different [as has been shown for the daily barometric variation by Prof. HANN in his recently published paper: Untersuchungen über die tägliche Oscillation des Barometers. (Denkschr. der Kais. Akad. d. W. in Wien. Bnd. IV, 1889)], would be much facilitated if the periodic formulae for different meteorological and magnetical elements were given in the works issued by various observatories. Finally I draw the attention of the reader to the very abnormal character of the meteorological data during the latter half of this year as shown by Tables 8 and 14 in the results.

From the first it appears that Easterly winds prevailed till the 22th of December, from the second that since June the temperature of the air and the barometric height were abnormally high and, consequently, the humidity and the cloudiness unusually small.

BATAVIA, July 1889. VAN DER STOK.

ERRATA.

Page	29, April	3, 12 a. m.	for	3.5	read	4.5
»	29, April	6, 12 a. m.	»	4.0	»	3.0
»	31, May	3, 6 p. m.	»	81.4	»	82.4
»	32, May	10, Daily means	»	8.43	»	8.54
»	153, for unity = 0.00001 c. g. s.				»	0'.1

METEOROLOGICAL OBSERVATIONS

BATAVIA

1888.

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	8.97	8.28	8.16	8.26	8.37	8.52	8.70	9.10	9.58	9.85	9.75	9.20	—
	2	9.26	9.03	8.73	8.70	9.15	9.48	9.98	10.33	10.40	10.35	9.97	9.90	—
	3	10.15	9.81	9.40	9.45	9.78	10.24	10.59	10.98	10.90	10.80	10.73	10.38	—
	4	10.20	9.85	9.27	9.22	9.81	10.51	10.78	11.20	11.40	10.67	11.00	10.63	—
	5	10.44	10.25	9.86	9.90	10.01	10.59	11.38	11.76	11.81	11.68	11.24	10.59	—
	6	10.44	9.89	9.58	9.49	9.64	10.04	10.63	11.21	11.44	11.39	10.94	10.74	—
	7	10.51	10.38	9.94	10.10	10.50	10.81	11.42	11.76	12.24	11.85	11.49	10.74	—
	8	10.43	9.71	9.64	9.61	9.81	10.49	10.97	11.22	11.19	10.95	10.54	10.03	—
	9	9.96	9.93	9.38	9.64	9.69	10.69	10.32	10.47	10.32	10.38	10.56	10.05	—
	10	8.98	8.49	8.31	8.34	8.56	8.81	9.41	9.77	9.85	9.50	9.20	8.96	—
	11	8.48	8.13	7.92	8.07	8.18	8.58	9.15	9.71	9.81	9.55	9.29	8.70	—
	12	8.26	8.03	7.80	7.86	7.96	8.37	8.92	8.98	9.10	9.16	9.00	8.44	—
	13	7.55	7.10	6.76	6.47	6.69	7.14	7.88	8.27	8.86	8.78	8.46	8.22	—
	14	8.60	8.11	7.86	7.92	8.28	8.59	9.16	9.34	9.59	9.50	9.19	8.80	—
	15	7.95	7.42	7.12	7.28	7.33	7.83	8.57	9.06	9.25	9.30	8.95	8.81	—
	16	8.68	7.90	7.75	7.60	7.65	8.35	8.88	9.17	9.50	9.44	9.06	8.82	—
	17	8.97	8.65	8.56	8.42	9.00	9.11	9.68	9.93	10.11	9.86	9.56	9.33	—
	18	9.25	9.26	9.02	8.93	9.10	9.49	10.00	10.43	10.60	10.30	9.87	9.50	—
	19	9.35	8.86	8.77	8.88	9.18	9.29	9.92	10.10	10.13	10.15	10.15	9.89	—
	20	8.80	8.46	8.22	8.22	8.66	9.26	10.13	10.48	10.54	10.51	10.39	10.05	—
	21	9.61	8.99	8.99	9.36	9.54	10.20	10.42	10.54	10.35	10.29	10.23	9.74	—
	22	9.93	9.64	9.56	9.43	10.06	10.74	11.21	11.42	11.36	11.03	10.81	10.54	—
	23	10.43	10.25	9.96	9.76	9.93	10.18	10.84	11.18	11.26	11 10	10.73	10.25	—
	24	9.74	9.41	9.56	9.58	9.99	10.50	10.93	10.60	10.45	10.43	10.08	9.40	—
	25	9.35	9.76	9.38	9.46	9.76	9.91	10.41	10.89	10.71	10.42	9.82	9.54	—
	26	9.83	9.59	9.49	9.90	9.91	10.03	10.48	10.93	10.96	10.91	10.69	10.00	—
	27	10.03	9.94	9.80	9.80	10.00	10.40	10.96	11.21	11.38	11.30	11.25	10.80	—
	28	10.30	10.21	9.93	9.84	10.01	10.37	10.79	11.36	11.39	11.36	11.28	10.83	—
	29	10.14	10.25	10.21	10.11	10.27	10.54	11.01	11.09	11.10	10.84	10.70	10.32	—
	30	10.04	10.15	9.78	10.06	10.63	10.93	10.93	11.24	11.46	11.10	10.85	10.73	—
	31	11.31	10.94	10.90	10.86	10.87	10.89	10.61	11.34	11.69	11.21	10.69	10.17	—
Hourly Means.		9.55	9.25	9.02	9.05	9.30	9.71	10.16	10.49	10.60	10.45	10.21	9.81	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	8.94	8.35	8.00	7.76	7.94	8.26	9.01	9.64	10.01	9.88	10.03	9.73	8.93
	2	9.58	8.74	8.41	7.91	8.24	8.69	9.40	9.94	10.53	10.78	10.90	10.48	9.54
	3	9.94	9.45	8.63	8.08	8.15	8.70	9.23	9.92	10 19	10.67	10.67	10.55	9.89
	4	9.97	9.15	8.46	8.35	8.65	9.72	10.09	10.78	10.99	11.30	10.80	10.80	10.15
	5	9.92	9.36	8.94	8.93	9.22	10.43	11.05	11.23	11.33	11.55	11.60	11.06	10.59
	6	10.08	9.59	9.23	8.96	9.27	9.83	10.30	11.00	11.29	11.35	11.03	10.74	10.34
	7	10.13	9.43	8.68	8.42	8.75	9.48	10.02	10.50	10.85	11.12	11.25	10.89	10.47
	8	9.35	8.54	7.94	7.60	7.65	8.65	9 27	10.09	10.41	10.16	10.20	9.76	9.76
	9	9.30	8.90	7.46	6.45	7.06	7.89	8.37	8.84	9.76	9.89	9.85	9.73	9.37
	10	8.33	7.35	7.31	6.95	7.24	7.77	8.25	8.41	8.62	9.19	9.05	8.77	8.56
	11	8.30	7.51	7.03	6.95	6.91	7.31	7.84	8.31	8.75	9.04	9.01	8.79	8.39
	12	7.61	6.94	6.41	6.05	6.30	6.95	7.75	7.89	8.17	8.60	7.90	7.87	7.93
	13	7.35	6.65	6.18	6.03	6.24	7.11	7.72	8.01	8.43	8.68	8.43	8.55	7.57
	14	8.19	7.62	7.14	6.79	6.85	7.46	8.09	8.57	9.10	9.12	8.92	8.78	8.40
	15	8.35	7.77	7.05	6.85	7.11	7.74	8.14	8.56	8.89	8.96	9.10	9.01	8.18
	16	8.60	7.86	7.53	7.43	7.85	8.28	8.62	9.14	9.45	9.81	9.53	9.37	8.59
	17	8.75	8.15	7.89	7.56	7.91	8.33	9.27	9.77	10.19	10.25	9.98	9.85	9.13
	18	8.84	8.38	8.04	8.16	8.69	9.19	9.40	9.81	10.29	10.44	9.95	9.53	9.44
	19	9.49	8.57	7.96	7.77	8.07	8.74	9.27	9.54	9.81	9.90	9.86	9.38	9.29
	20	9.61	8.77	8.09	7.82	8.27	8.84	9.31	9.98	10.35	10.43	10.50	10.19	9.41
	21	9.52	8.74	8.26	7.86	8.23	8.78	9.19	9.87	10.37	10.50	10.43	10.11	9.59
	22	10.19	9.32	8.36	8.16	8.51	8.80	9.60	10.23	10.70	11.06	11.25	10.86	10.12
	23	9.58	8.95	8.54	8.65	8.70	8.99	9.82	10.33	10.83	10.99	10.59	10.13	10.08
	24	8.88	8.25	7.69	7.77	7.79	8.55	9.34	9.97	10.25	10.17	10.35	9.95	9.57
	25	8.76	8.89	8.55	8.07	8.39	9.12	9.55	9.97	10.34	10.56	10.66	10.18	9.69
	26	9.72	9.44	8.90	8.76	8.86	9.12	9.54	10.15	10.64	10.78	10.75	10.31	9.99
	27	9.99	9.28	8.94	8.71	8.93	9.37	10.04	10 78	11.14	11.35	11.08	10.64	10.30
	28	10.48	9.93	9.53	9.05	9.22	9.62	9.93	10.75	11.30	11.16	10.90	10.41	10.41
	29	9.80	9.25	9.00	8.98	9.32	9.78	10.37	10.89	10.99	11.03	10.90	10.81	10.32
	30	10.47	9.72	9.51	9.49	9.71	10.25	10.70	11.53	12.65	12.53	12.38	11.50	10.76
	31	9.85	9.36	8.84	8.73	9.06	9.26	9.65	10 25	10.68	10.97	11.00	10.44	10.40
Hourly Means.		9.29	8.65	8.15	7.90	8.16	8.74	9.29	9.83	10.24	10.39	10.29	9.97	9.52

STANDARD THERMOMETER.

JANUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	75.0	75.0	74.2	74.2	74.1	74.0	73.9	73.5	74.5	76.1	78.1	79.3	—
2	74.4	74.1	73.9	73.8	73.1	73.4	74.1	75.6	77.5	78.0	79.2	79.2	—
3	73.2	73.8	73.8	73.8	73.5	73.3	74.0	76.0	77.7	78.2	80.7	80.5	—
4	76.3	76.3	76.5	76.0	76.0	75.7	75.3	75.9	78.0	78.6	78.8	78.4	—
5	75.1	73.5	74.0	73.9	74.5	74.7	75.1	76.9	77.5	79.0	80.0	80.5	—
6	73.3	73.5	73.2	73 1	73.2	73.5	74.4	75.0	76.0	76.7	78.2	79.4	—
7	73.9	73.6	73.4	73.6	73.5	73.3	74.0	75.4	76.5	78.4	79.2	80.5	—
8	74.8	74.0	73.8	73.0	72.4	72.0	73.0	75.8	78.2	79.9	80.5	81.0	—
9	73.8	72.9	71.4	72.3	72 1	71.9	71.9	73.0	75.0	76.8	78.6	79.3	—
10	73.1	72.7	72.5	72.1	72.5	72.0	74.0	77.5	79.7	81.9	83.5	83.1	—
11	75.0	74.7	74.5	74.6	74.4	74.2	74.5	76.3	77.0	80.3	80.3	81.8	—
12	75.6	75.1	75.1	74.9	74.6	74.0	75.1	77.4	77.2	78.4	76.5	79.0	—
13	73.8	73.6	73.4	73.4	73.2	73.6	73.8	73.4	74.0	74.9	75.4	77.0	—
14	74.2	74.2	73.9	73.2	73.2	73.3	73.7	74.1	75.9	78.1	79.7	79.2	—
15	74.6	74.6	74.3	74.0	74.0	73.8	73.8	74.6	74.8	74.8	77.8	78.9	—
16	75.0	75.0	75.2	75.6	75.0	75.0	75.0	76.1	75.8	76.6	78.5	80.0	—
17	75.6	74.5	74.3	74.0	73.6	73.4	74.0	74.2	76.0	77.0	78.5	80.2	—
18	75.4	75.4	74.9	74.3	73.6	73.4	74.3	76.4	78.8	79.8	80.2	80.6	—
19	73.7	73.3	73.0	73.0	73.0	73.0	73.2	75.0	78.0	77.4	76.8	76.0	-
20	73.6	73.2	73.5	73.5	73.5	73.6	74.6	75.3	76.7	76.2	76.0	74.7	—
21	73.2	73.4	73.2	73.0	73.0	73.0	73.5	75.5	77.6	80.0	81.2	81.5	—
22	75.1	74.4	74.2	74.0	74.5	72.6	73.0	74.3	76.5	77.1	77.8	80.0	—
23	74.0	74.0	73.8	73.8	73.8	73.6	74.0	75.4	78.6	80.7	80.6	81.6	—
24	75.4	75.4	75.0	75.2	74.9	74.4	75.0	76.0	78.2	80.9	82.7	83.7	
25	75.0	74.5	75.1	75.1	74.2	73.6	74.4	76.4	79.0	80.5	80.9	80.3	—
26	75.0	75.0	74.7	74.5	74.2	74.0	74.0	74.1	74.7	75.2	76.0	76.1	—
27	73.9	73.8	73.6	73.5	73.5	73.2	73.5	74 0	75.0	77.0	77.5	79.4	—
28	74.0	74.0	73.7	73.1	73.1	73.1	73.5	74.0	74.3	74.8	76.1	77.9	—
29	73.2	73.3	73.2	73.1	73.0	72.8	73.1	75.1	77.4	77.0	79.2	80.9	—
30	75.5	75.0	74.6	74.1	74.1	73.8	74.1	75.0	77.0	78.7	80.8	81.1	—
31	72.8	72.6	72.1	72.2	72.3	72.3	72.6	73.9	76.0	79.5	81.4	82.8	—
Hourly Means.	74.40	74.14	73.94	73.80	73.66	73.47	73.95	75.20	76.75	78.02	79.05	79.80	—

JANUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	79.9	80.5	79.2	78.4	78.1	77.8	74.4	74.6	74.6	74.6	74.4	74.2	75.94
2	79.2	80.0	80.7	80.1	80.0	79.1	78.1	77.6	75.3	73.7	73.0	73.1	76.51
3	80.2	81.2	81.4	81.2	80.6	79.5	78.5	78.0	77.3	76.7	76.5	76.5	77.34
4	80.5	81.0	81.8	81.4	81.2	77.4	76.6	76.2	75.7	75.8	75.5	75.3	77.51
5	81.1	81.4	81.1	80.1	78.2	74.4	74.7	72.8	72.6	72.8	72.8	73.2	76.25
6	80.0	80.4	80.4	80.6	80.2	79.2	78.4	77.9	76.9	76.4	75.5	74.5	76.66
7	81.5	82.0	81.4	80.2	80.2	79.4	78.2	77.5	76.9	76.5	75 8	75.3	77.09
8	82.0	82.2	81.0	80.0	79.0	78.6	77.7	75.1	74.5	74.1	73.9	73.7	76 68
9	80.3	75.7	75.0	75.6	77.6	78.3	77.4	76.6	76.0	75.5	75.0	74.0	75.25
10	82.0	81.7	76.7	77.7	78.1	77.5	76.8	76.6	76.4	76.1	75.6	75.4	76.88
11	80.8	80.0	79.8	80.4	81.4	80.3	79.2	78.7	78.0	77.2	76.3	75.8	77.73
12	79.5	80.0	80.0	79.8	78.1	76.6	76.0	74.5	74.4	74.6	74.3	74.0	76.45
13	79.0	79.5	79.4	79.8	78.7	76.4	76.0	75.7	75.7	75.5	74.2	74.1	75.56
14	78.1	80.1	80.4	80.1	79.5	78.6	77.8	77.0	76.6	76.0	75.0	74.6	76.52
15	78.6	78.6	79.6	79.2	79.0	78.5	77.5	76.7	76.2	75.6	74.7	74.9	76.21
16	81.4	80.4	80.8	81.0	80.3	79.6	78.0	76.8	76.1	76.1	75.9	75.8	77.29
17	81.5	82.5	82.1	81.1	80.5	79.6	77.7	77.3	77.1	76.4	75.7	75.8	77.19
18	81.6	80.2	79.0	76.6	76.0	75.2	75.5	75.1	75.1	74.8	74.1	73.7	76.42
19	76.3	75.7	76.2	77.6	78.2	76.6	75.8	75.0	74.0	73.7	74.0	73.8	75.10
20	75.2	77.1	78.0	79.1	78.9	78.3	77.0	76.2	76.0	75.6	74.6	73.9	75.60
21	82.1	82.2	82.1	81.6	81.1	80.1	79.0	78.0	77.6	76.7	76.0	75.5	77.50
22	75.0	76.1	78.0	79.0	79.6	78.6	77.5	76.5	76.3	74.0	74.0	74.0	75.92
23	83.5	83.3	82.5	81.0	80.0	80.4	79.5	78.5	78.5	77.6	76.5	76.0	77.97
24	84.1	82.7	82.0	81.8	81.3	80.8	80.5	80.0	79.1	78.0	76.7	75.8	78.73
25	80.4	76.0	76.0	76.8	77.8	78.0	77.4	76.5	75.8	75.3	75.3	75.1	76.64
26	77.5	78.2	78.4	78.4	78.4	78.0	77.2	75.7	75.4	75.0	74.3	74.1	75.75
27	78.7	81.0	80.4	80.3	79.8	79.2	78.4	78.1	74.7	74.3	74.1	74.1	76.29
28	80.0	80.2	81.0	80.2	79.6	79.0	77.8	77.6	74.7	74.1	73.7	73.6	75.96
29	81.0	81.8	81.1	80.2	79.9	79.4	78.5	78.0	77.7	77.0	76.4	76.0	77.01
30	80.8	80.2	80.6	81.3	80.5	80.1	79.1	77.8	73.6	73.2	73.3	73.0	76.97
31	84.0	83.6	84.3	82.9	82.2	81.1	80.0	79.4	78.6	78.0	77.1	76.5	77.84
Hourly Means.	80.19	80.18	80.01	79 79	79.48	78.57	77.62	76.84	76.05	75.51	74.97	74.69	76.67

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	905	904	930	938	947	947	956	947	888	882	821	786	—
	2	956	956	956	965	991	973	965	923	835	821	785	771	—
	3	973	965	973	965	973	982	965	948	892	893	768	767	—
	4	948	957	948	940	948	940	931	906	901	838	822	893	—
	5	947	938	921	938	930	939	939	900	892	816	803	775	—
	6	956	947	956	956	965	965	965	974	974	940	869	824	—
	7	947	965	973	973	946	965	965	940	924	862	794	746	—
	8	922	921	929	946	946	946	937	906	837	818	797	798	—
	9	938	894	935	946	946	919	936	911	871	842	853	832	—
	10	955	964	964	964	937	955	904	836	817	771	713	747	—
	11	947	965	956	956	965	956	947	924	875	819	819	771	—
	12	914	922	922	913	904	938	914	835	883	869	932	854	—
	13	956	956	946	946	955	938	947	965	965	956	922	875	—
	14	896	913	930	955	955	956	921	912	881	829	787	809	—
	15	897	905	913	913	930	921	956	947	947	966	901	823	—
	16	974	974	956	948	947	956	939	915	898	916	777	766	—
	17	957	947	947	956	965	965	965	965	940	924	830	774	—
	18	922	922	922	939	956	946	939	882	831	803	804	782	—
	19	956	965	964	964	973	964	973	947	868	875	907	931	—
	20	938	946	938	938	947	956	947	931	907	948	948	939	—
	21	929	920	929	937	955	964	973	940	892	766	770	735	—
	22	947	947	956	956	956	946	955	973	932	932	868	810	—
	23	956	965	965	965	965	973	965	966	847	797	804	771	—
	24	931	923	947	931	939	947	939	915	846	783	731	706	—
	25	905	913	897	905	921	938	913	833	831	789	798	849	—
	26	930	922	922	930	930	921	921	913	904	898	875	882	—
	27	956	965	973	965	965	955	956	947	939	891	867	832	—
	28	973	965	973	973	973	973	982	973	973	974	957	901	—
	29	973	973	982	973	973	964	982	974	907	916	840	805	—
	30	957	965	965	965	956	965	973	974	932	862	783	776	—
	31	929	929	955	973	973	973	955	947	857	758	707	697	—
Hourly Means.		942	942	947	949	953	953	949	928	893	863	827	807	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	781	760	823	862	893	901	939	956	956	965	956	956	900
	2	764	766	746	759	788	832	877	908	922	938	946	964	879
	3	774	762	756	740	768	817	853	884	916	940	940	948	882
	4	811	798	785	806	798	907	916	932	948	948	957	957	897
	5	791	756	769	803	877	896	879	902	929	937	937	946	882
	6	818	804	789	804	849	894	901	901	940	940	939	947	909
	7	763	758	777	811	811	848	893	917	932	940	940	948	889
	8	750	764	769	803	886	918	950	905	939	947	938	938	884
	9	796	872	922	940	908	853	812	818	825	872	897	921	886
	10	764	792	906	860	861	867	899	866	890	899	923	939	875
	11	789	825	825	834	836	841	847	838	860	843	890	905	876
	12	833	788	788	818	846	900	948	947	956	956	956	956	896
	13	831	816	794	780	838	843	882	898	881	840	870	887	895
	14	901	841	804	787	809	822	836	867	866	873	898	905	873
	15	831	800	786	801	808	830	875	924	940	940	983	974	896
	16	727	753	739	711	759	765	845	883	906	915	915	948	868
	17	699	668	667	656	667	707	805	851	883	899	905	915	852
	18	749	737	785	883	923	939	948	947	957	965	965	965	892
	19	915	940	915	884	814	906	906	872	913	921	930	938	923
	20	966	875	845	809	808	838	891	932	931	923	922	921	914
	21	751	722	729	749	776	788	838	884	892	916	940	948	860
	22	905	932	884	823	802	854	907	932	940	956	956	956	918
	23	740	754	759	733	818	797	833	885	885	884	916	923	869
	24	777	801	807	807	828	850	753	810	808	845	874	881	849
	25	797	898	940	948	958	942	916	940	931	930	922	930	898
	26	867	837	846	838	830	853	883	931	957	956	965	965	903
	27	902	769	782	804	833	847	877	901	939	956	965	965	906
	28	795	788	783	803	824	847	908	917	956	947	956	956	920
	29	805	686	739	796	810	847	893	917	925	949	957	948	897
	30	746	759	760	762	796	810	870	867	921	920	938	946	882
	31	699	712	700	738	736	768	825	863	893	901	907	915	846
Hourly Means.		801	791	797	805	824	849	878	897	914	921	932	939	888

DIRECTION OF THE WIND.

JANUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	W	W	W	W	W	W	W	C	WNW	NW	NNW	NNW
2	C	C	C	C	C	C	WNW	NW	NNW	NNW	NNW	NNW
3	C	C	C	C	C	C	NW	C	NW	NNW	NNW	NNW
4	C	C	C	C	C	NW	NW	WNW	WNW	NW	NW	NW
5	C	NNW	N	N	N	NW	NW	NW	NW	NW	NNW	NNW
6	C	C	W	NNW	C	C	C	NW	NW	NW	NNW	NNW
7	C	C	NW	NW	C	C	C	C	NW	NW	NNW	NNW
8	C	C	C	C	C	C	C	N	NW	NNW	NNW	N
9	C	WNW	WNW	NW	C	NW	C	C	NW	NW	WNW	WNW
10	C	C	C	C	C	C	NW	NNW	NW	WNW	WNW	NNW
11	C	C	C	C	C	C	WNW	NW	NW	NW	NW	NNW
12	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW
13	WSW	C	WSW	W	W	W	WSW	WSW	WSW	WNW	W	W
14	WSW	WSW	W	C	W	W	WSW	WSW	W	WNW	WNW	NW
15	C	C	C	WNW	C	WNW	C	C	W	NW	NNW	NNW
16	C	C	N	NNW	NNW	C	NNW	NW	NNW	NW	NNW	NNW
17	N	NW	NW	C	C	C	NW	C	NW	NW	NNW	NNW
18	N	N	C	N	N	N	W	WSW	NNW	NNW	NW	NNW
19	C	C	C	C	N	N	C	N	NW	WSW	W	W
20	C	C	C	C	C	C	WNW	WNW	NNW	NNW	NW	NW
21	C	C	C	C	C	NW	NW	NW	NW	NNW	N	NNW
22	N	C	C	C	N	NW	C	NW	NW	NW	NNW	N
23	C	C	C	C	C	C	C	NW	NW	N	NNW	N
24	C	C	C	NNW	C	C	NNW	NNW	WNW	WNW	NW	NW
25	C	W	W	C	C	C	W	W	NW	NNW	NNW	NNW
26	C	NW	C	C	NW	NW	NW	NW	NW	NW	NW	NNW
27	C	C	C	NW	NW	C	C	NW	NW	NW	NNW	NW
28	C	W	C	W	C	C	C	C	W	W	W	NW
29	N	N	N	C	C	C	C	C	N	NNW	NNW	NNW
30	C	C	C	N	NW	C	C	C	NW	NW	NNW	NNW
31	WSW	WSW	C	C	WSW	C	WSW	WSW	W	NW	N	NW

JANUARY.

Mean Batavia Time	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NNW	NNW	WNW	WNW	C	WNW	N	NNW	C	C	C	C
2	NNW	N	NNW	NNW	NNW	C	C	NW	N	NNE	NNW	C
3	NNW	N	NW	N	N	C	C	C	C	C	C	C
4	NW	NNW	NNW	NNW	NNW	WNW	WNW	C	C	C	C	C
5	NNW	NNW	N	NNW	C	W	NW	C	C	C	C	C
6	NNW	NW	NNW	C	C	C	C	C	C	C	C	C
7	N	NNW	NNW	N	N	C	C	C	C	C	C	C
8	NNW	NNE	N	N	NNW	C	NNW	NW	C	C	C	C
9	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	C	C	C
10	NW	N	SW	WNW	W	WNW	WNW	W	W	WNW	WNW	C
11	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	WNW	WNW	WNW	WNW
12	NNW	NNW	NNW	NNW	WSW	WSW	WSW	C	C	C	C	W
13	WNW	W	WNW	NW	W	WSW	W	W	W	WSW	WSW	WSW
14	NW	WNW	W	W	W	W	C	C	C	C	C	C
15	N	NNE	N	N	N	N	C	N	C	N	NW	C
16	NNE	N	N	N	N	N	C	C	C	C	N	C
17	NNW	NNE	N	N	N	N	C	C	C	C	C	C
18	NNW	NNW	NNE	N	N	N	C	C	C	C	C	C
19	W	W	NW	NW	NW	NW	WNW	C	C	C	C	C
20	NW	WNW	WNW	NNW	NW	C	C	C	C	C	NW	C
21	NW	N	NNE	N	N	N	N	C	C	C	C	C
22	NW	NW	NW	N	NNW	N	C	C	N	NW	C	C
23	NNW	NNW	N	WNW	NW	NNW	NNW	NNW	C	C	C	C
24	N	N	N	N	N	N	W	W	W	W	W	W
25	NNW	NW	NW	C	NW	NW	NW	NW	C	NW	NW	C
26	NNW	NNW	NW	NW	NW	NW	NW	NW	C	C	NW	NW
27	NW	NNW	NNW	N	N	N	N	SW	W	W	W	C
28	NNW	NNW	N	NNE	N	N	C	N	N	N	N	N
29	N	NNW	N	N	N	N	C	N	C	C	C	C
30	NNW	NNW	N	NNW	N	NNE	C	SW	WSW	WSW	WSW	WSW
31	NNW	N	NW	N	N	N	N	N	C	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

JANUARY.	Mean Batavia Time. 1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	1.6	0.8	0.8	0.8	0.8	0.8	1.6	0.0	4.8	12.9	14.5	16.1	—
2	0 0	0.0	0.0	0.0	0.0	0.0	0.8	8.0	11.3	9.7	14.5	15.3	—
3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0,0	2.4	8.0	11.3	12.9	—
4	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	3.2	6.4	8.9	3.2	—
5	0.0	7.2	1.6	0.8	3.2	1.6	0.8	2.4	3.2	12.1	12.1	11.3	—
6	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.8	0.8	3.2	8.9	8.9	—
7	0.0	0.0	0.8	2.4	0.0	0.0	0.0	0.0	1.6	5.6	9.7	9.7	—
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	6.4	10.5	8.9	8.0	—
9	0.0	0.8	0.8	0.8	0.0	0.8	0.0	0.0	0.8	4.0	4.8	7.2	—
10	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.4	8.0	7.2	11.3	12.1	—
11	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.2	6.4	6.4	8.0	9.7	—
12	0.8	0.8	1.6	1.6	0.8	0.8	1.6	2.4	4.8	5.6	7.2	14.5	—
13	0.8	0.0	1.6	0.8	0.8	3.2	4.0	1.6	1.6	4.8	5.6	6.4	—
14	1.6	1.6	0 8	0.0	0.8	2.4	4.8	4.0	3.2	5.6	6.4	6.4	—
15	0.0	0.0	0.0	0.8	0.0	1.6	0.0	0.0	1.6	2.4	11.3	12.1	—
16	0.0	0.0	4.8	4.8	0.8	0.0	1.6	4.8	4.8	5.6	13.7	15.3	—
17	1.6	1.6	0.8	0.0	0.0	0.0	0.8	0.0	0.8	3.2	7.2	8.0	—
18	0.8	1.6	0.0	0.8	1.6	0.8	4.0	2.4	5.6	6.4	9.7	13.7	—
19	0.0	0.0	0.0	0.0	0.8	0.8	0.0	1.6	5.6	6.4	4.0	3.2	—
20	0.0	0.0	0.0	0.0	0.0	0.0	4.8	3.2	4.8	5.6	6.4	5.6	—
21	0.0	0.0	0.0	0.0	0.0	1.6	0.8	3.2	6.4	12.1	12.1	12.9	—
22	1.6	0.0	0.0	0.0	3.2	1.6	0.0	1.6	2.4	4.8	6.4	11.3	—
23	0 0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.0	8.0	12.9	13.7	—
24	0.0	0.0	0.0	0.8	0.0	0.0	1.6	2.4	4.0	8.0	9.7	11 3	—
25	0.0	0.8	0.8	0.0	0.0	0.0	1.6	2.4	8.0	9.7	13.7	12.1	—
26	0.0	0.8	0.0	0.0	0.8	1.6	1.6	2.4	4.0	8.0	9.7	10.5	—
27	0.0	0.0	0.0	0.8	1.6	0.0	0.0	3.2	3.2	7.2	9.7	8.9	—
28	0.0	0.8	0.0	0.8	0.0	0.0	0.0	0.0	1.6	1.6	3.2	8.0	—
29	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	3.2	4.8	8.0	6.4	—
30	0.0	0.0	0.0	3.2	4.0	0.0	0.0	0.0	4.8	6.4	11.3	12.1	—
31	1.6	0.8	0.0	0.0	0.8	0.0	1.6	1.6	4.8	8.9	8.9	9.7	—
Hourly Means.	0.39	0.59	0.52	0.65	0.65	0.59	1.26	1.96	4.13	6.81	9.35	10.21	—

JANUARY.	Mean Batavia Time. 1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	17.7	16.1	7.2	1.6	0.0	1.6	1.6	0.8	0.0	0.0	0.0	0.0	4.25
2	12.1	8.0	4.0	4.8	0.8	0.0	0.0	1.6	4.0	7.2	3.2	0.0	4.39
3	9.7	8.0	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.55
4	4.8	8.0	4.8	2.4	1.6	0.8	1.6	0.0	0.0	0.0	0.0	0.0	2.07
5	11.3	10.5	6.4	0.8	0.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	3.65
6	8.0	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 0	1.64
7	8.9	8.0	7.2	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.48
8	11.3	9.7	11.3	6.4	0.8	0.0	0.8	1.6	0.0	0.0	0.0	0.0	3.19
9	7.2	6.4	3.2	1.6	2.4	0 8	1.6	0.8	0.8	0.0	0.0	0.0	1.87
10	8.9	9.7	6.4	3.2	2.4	2.4	1.6	1.6	2.4	0.8	0.8	0.0	3.65
11	12.1	11.3	7.2	4.8	6 4	2.4	1.6	2.4	1.6	0.8	0.8	0.8	3.68
12	12.9	12.9	8.0	6.4	2.4	0.8	1.6	0.0	0.0	0.0	0.0	1.6	3.71
13	5.6	4.8	4.8	5.6	4.8	4.8	1.6	1.6	4.0	6.4	4.0	1.6	3.37
14	3.2	5.6	5.6	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.63
15	11.3	10.5	12.1	8.9	4.0	1.6	0.0	0.8	0.0	3.2	2.4	0.0	3.53
16	15.3	12.1	10.5	10.5	7.2	2.4	0.0	0 0	0.0	0.0	0.8	0.0	4.79
17	8.9	8.9	10.5	9.7	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.92
18	12.9	11.3	9.7	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.52
19	4.0	4.8	5.6	8.0	8.9	3.2	0.8	0.0	0.0	0.0	0.0	0.0	2.40
20	2.4	4.8	6.4	5.6	3.2	0.0	0.0,	0.0	0.0	0.0	0.8	0.0	2.23
21	10.5	12.1	11.3	10.5	8.0	4.8	1.6	0.0	0.0	0.0	0.0	0.0	4.50
22	7.2	1.6	4.8	5.6	5.6	1.6	0.0	0.0	3.2	0.8	0.0	0.0	2.64
23	12.1	11.3	11.3	3.2	2.4	5.6	3.2	0.8	0.0	0.0	0.0	0.0	3 72
24	11.3	13.7	13.7	11.3	11.3	4.0	4.0	2.4	2.4	1.6	0.8	1.6	4.83
25	8.0	2.4	0.8	0.0	0.8	1.6	0.8	0.8	0.0	0.8	0.8	0.0	2.75
26	12.9	8.9	5.6	6.4	4.0	0.8	0.8	0.8	0.0	0.0	0.8	0.8	3.38
27	6.4	11.3	10.5	6.4	6.4	3.2	0.8	4.8	1.6	0.8	0.8	0.0	3.65
28	8.0	12.9	11.3	9.7	4.0	0.8	0.0	1.6	3.2	1.6	0.8	0.8	2.95
29	12.1	15.3	14.5	11.3	4.0	0.8	0.0	1.6	0.0	0.0	0.0	0.0	3.55
30	13.7	14.5	10.5	10.5	8.0	1.6	0.0	6.4	8.0	4.8	4.0	3.2	5.29
31	10.5	11.3	12.9	8.9	4.8	3.2	0.8	0.8	0.0	0.0	0,0	0.0	3.83
Hourly Means.	9.72	9.40	7.91	5.76	3.77	1.75	0.83	1.01	1.01	0.93	0.67	0.34	3.34

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	8	7	8	10	10	10	10	10	10	10	10	10	—
	2	10	9	10	10	10	10	10	10	10	10	10	10	—
	3	10	10	10	10	10	10	10	10	9	10	9	9	—
	4	10	10	10	7	10	10	10	10	10	10	10	10	—
	5	10	10	10	10	10	10	10	9	10	10	9	9	—
	6	10	10	10	10	10	10	10	10	10	10	10	10	—
	7	4	6	3	9	9	8	10	10	10	9	10	10	—
	8	3	3	4	4	6	7	8	8	7	9	10	10	—
	9	10	10	10	10	10	10	10	10	10	10	10	10	—
	10	6	7	5	6	7	5	5	4	7	2	3	7	—
	11	2	3	3	10	9	7	5	3	9	6	7	7	—
	12	3	2	7	6	8	9	4	10	9	10	10	10	—
	13	10	10	10	10	10	10	10	10	10	10	10	10	—
	14	9	9	7	9	9	10	10	10	10	10	10	10	—
	15	8	10	6	10	10	10	10	10	10	10	10	10	—
	16	10	10	10	10	10	10	10	9	10	10	10	10	—
	17	10	9	8	7	6	7	10	10	10	10	10	9	—
	18	6	8	5	5	6	6	6	7	9	10	8	10	-
	19	4	6	2	7	10	7	10	5	10	10	10	10	—
	20	3	10	10	10	10	10	10	10	10	10	10	10	—
	21	9	2	7	7	4	9	10	6	7	6	6	6	—
	22	6	8	9	6	10	10	10	9	10	10	10	9	—
	23	10	10	8	10	10	10	9	9	4	5	9	7	—
	24	9	4	6	2	2	6	10	10	10	4	5	6	—
	25	4	7	9	9	9	6	7	7	7	10	10	9	—
	26	10	10	8	10	10	10	10	10	10	10	10	10	—
	27	9	10	10	10	9	10	10	10	10	10	10	10	—
	28	10	10	10	10	10	10	9	10	10	10	10	10	—
	29	7	8	9	10	10	10	10	7	10	10	10	10	—
	30	2	6	8	9	10	10	10	10	10	10	10	10	—
	31	10	10	10	10	10	10	10	10	8	7	6	6	—
Hourly Means.		7.5	7.9	7.8	8.5	8.8	8.9	9.1	8.8	9.2	9.0	9.1	9.2	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	10	10	10	10	10	10	10	10	10	10	10	10	9.7
	2	10	10	7	6	7	7	10	10	10	10	10	10	9.4
	3	10	10	10	9	9	9	9	6	9	10	10	7	9.4
	4	9	9	9	8	8	10	10	2	1	5	5	10	8.5
	5	10	10	10	10	10	10	10	10	10	10	10	8	9.8
	6	10	10	10	10	10	10	10	9	9	10	8	5	9.6
	7	9	9	9	10	10	10	5	3	4	3	2	2	7.3
	8	9	7	7	7	10	9	5	10	10	6	7	8	7.3
	9	9	10	10	10	9	7	3	0	0	3	3	3	7.8
	10	8	10	10	10	10	10	9	8	6	5	5	4	6.6
	11	9	10	10	9	7	6	6	9	9	6	4	5	6.7
	12	10	10	10	10	10	10	10	10	10	10	6	8	8.4
	13	10	10	10	10	10	9	10	10	10	10	10	10	10.0
	14	10	10	10	10	10	10	9	3	5	2	1	7	8.3
	15	10	10	10	10	10	10	10	10	8	7	10	10	9.5
	16	7	7	8	5	6	6	7	5	7	10	10	10	8.6
	17	7	6	4	2	1	1	10	9	8	8	2	8	7.2
	18	9	10	10	10	10	10	10	10	10	10	8	5	8.3
	19	10	10	9	9	9	10	9	8	7	9	7	7	8.1
	20	10	10	10	9	10	9	9	10	9	7	3	3	8.8
	21	8	2	2	3	2	3	2	2	3	3	5	7	5.0
	22	10	10	9	6	8	7	6	6	9	10	10	10	8.7
	23	7	7	6	6	6	4	3	5	9	10	6	9	7.5
	24	8	7	6	5	6	9	10	10	10	10	6	3	6.8
	25	10	10	10	10	10	10	9	9	7	8	8	9	8.5
	26	10	10	10	10	10	10	10	10	10	9	10	10	9.9
	27	10	7	9	9	6	6	10	10	10	10	10	10	9.4
	28	10	10	9	9	9	9	10	10	10	10	10	7	9.7
	29	9	9	9	9	10	10	10	10	9	5	8	7	9.0
	30	10	10	10	10	10	10	10	10	10	10	9	10	9.3
	31	6	6	7	6	7	9	9	8	6	3	2	2	7.4
Hourly Means.		9.2	8.9	8.7	8.3	8.4	8.4	8.4	7.8	7.9	7.7	6.9	7.2	8.40

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

JANUARY. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	19.8	12.2	16.0	N	N	N	N	N	6.4	11.5	5.8	5.1	—
2	13.4	—	—	—	—	—	—	15.4	8.3	7.7	6.4	6.4	—
3	— 6.4	3.2	1.9	8.3	9.6	10.2	16.6	3.8	5.1	5.1	3.8	4.5	—
4	14.7	19.2	9.6	13.4	10.9	3.2	3.2	3.2	9.0	8.3	3.8	0.0	—
5	44.2	N	N	8.3	11.5	1.9	9.0	9.0	6.4	5.8	5.8	3.2	—
6	14.1	16.0	14.1	— 4.5	16.0	5.1	14.1	N	10.9	5.8	4.5	5.1	—
7	22.4	21.1	17.9	25.0	7.7	12.8	16.6	11.5	5.8	5.8	3.8	3.8	—
8	16.6	15.4	13.4	12.2	10.2	14.7	21.8	13.4	6.4	3.8	3.2	3.2	—
9	13.4	N	5.1	— 5.1	5.8	4.5	10.2	7.7	4.5	5.1	4.5	4.5	—
10	21.1	—	—	—	—	—	10.2	7.0	7.0	3.2	3.2	3.2	—
11	8.3	10.2	10.9	8.3	—	—	11.5	7.7	5.8	2.6	12.2	7.0	—
12	7.0	6.4	1.9	2.6	0.6	4.5	20.5	35.2	30.7	23.7	N	3.8	—
13	7.0	8.3	7.0	5.8	6.4	5.8	3.2	N	5.1	3.2	3.8	3.2	—
14	11.5	26.9	10.2	—	—	—	—	—	—	4.5	0.6	3.2	—
15	14.7	—	—	—	—	—	7.7	10.9	N	— 0.6	3.8	3.2	—
16	0.0	3.2	2.6	4.5	—	—	0.6	1.3	1.3	2.6	1.9	1.9	—
17	9.0	1.3	3.8	2.6	3.2	7.7	17.9	12.2	13.4	3.2	2.6	3.2	—
18	18.6	10.9	11.5	10.2	8.3	5.1	9.0	9.6	5.1	5.1	5.8	3.2	—
19	10.9	9.6	7.0	8.3	5.8	9.0	14.7	7.0	4.5	0.0	— 1.9	— 0.6	—
20	10.2	11.5	5.8	9.6	5.8	9.6	7.7	3.2	3.2	— 9.6	N	14.7	—
21	12.2	15.4	13.4	7.7	12.8	6.4	3.2	7.7	4.5	3.2	3.2	3.8	—
22	6.4	— 1.9	4.5	5.8	1.9	N	— 17.3	1.9	0.0	0.0	0.6	N	—
23	3.2	2.6	3.2	1.9	2.6	4.5	7.0	7.7	1.3	0.6	— 1.9	— 0.6	—
24	17.9	19.2	19.2	10.9	13.4	14.1	17.9	5.8	6.4	4.5	3.2	3.2	—
25	16.6	23.7	10.2	—	—	—	18.6	9.6	7.0	3.8	1.9	— 0.6	—
26	14.1	13.4	15.4	16.0	9.6	14.1	9.6	— 12.8	— 9.6	33.9	17.9	7.7	—
27	24.3	26.2	12.8	15.4	10.2	9.6	11.5	—	—	—	—	—	—
28	—	—	—	—	—	—	—	N	N	N	N	5.1	—
29	25.0	20.5	25.0	26.9	35.2	P N	33.3	28.8	29.4	P N	P N	1.9	—
30	12.8	17.9	P N	P N	P N	P N	5.8	7.0	13.4	5.1	3.8	3.2	—
31	3.2	6.4	7.7	10.9	16.0	16.0	28.2	28.8	19.2	5.1	3.8	4.5	—
Hourly Means.	13.5	12.8	10.0	8.9	9 7	8.4	11.6	9.7	7.8	5.5	4.1	3.8	—

JANUARY. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	3.8	5.8	5.1	6.4	5.8	27.5	P N	P N	N	10.9	10.2	12.8	10.3
2	5.1	5.1	7.0	6.4	7.0	10.9	20.5	33.9	P N	P N	N	— 7.0	9.8
3	5.1	4.5	6.4	5.1	6.4	16.6	16.6	20.5	20.5	21.1	18.6	15.4	9.3
4	3.8	5.1	5.8	4.5	9.0	N	9.6	0.0	17.3	28.8	20.5	25.0	9.9
5	3.8	5.1	P	P	N	N	P	20.5	16.6	21.1	29.4	17.3	12.9
6	3.8	4.5	5.1	7.0	11.5	12.8	14.7	17.3	15.4	28.8	20.5	15.4	11.2
7	2.6	3.2	4.5	4.5	5.1	7.7	10.9	14.1	23.7	26.2	14.7	19.8	12.1
8	1.9	1.3	3.2	—	—	—	—	—	—	—	—	—	9.4
9	3.8	N	N	8.3	10.9	4.5	7.0	9.0	12.2	10.9	10.2	23.0	7.6
10	0.0	—	—	—	—	—	10.9	9.0	9.0	9.0	9.6	12.2	8.2
11	—	—	—	—	—	—	—	7.0	9.0	8.3	7.7	9.0	8.4
12	6.4	7.7	N	5.8	—	N	— 6.4	— 6.4	13.4	1.9	5.1	5.1	8.5
13	2.6	2.6	2.6	3.8	— 2.6	4.5	7.7	10.9	9.0	3.8	5.8	9.0	5.2
14	N	2.6	3.2	5.8	7.0	7.7	14.7	23.0	18.6	17.3	21.1	19.8	11.6
15	3.2	2.6	3.8	4.5	12.2	15.4	15.4	12.2	13.4	16.0	N	— 7.7	7.7
16	1.3	1.9	1.9	3.2	3.8	3.8	6.4	8.3	7.0	14.7	14.1	9.6	4.4
17	3.2	5.1	4.5	6.4	5.1	9.0	14.7	10.9	19.2	16.0	23.7	14.7	8.9
18	3.2	14.7	28.8	P	N	0.0	1.9	3.8	— 1.3	2.6	6.4	7.0	7.7
19	5.1	N	2.6	3.8	3.8	N	3.2	7.7	13.4	12.8	13.4	10.9	6.9
20	1.3	1.3	1.9	1.9	2.6	6.4	7.7	14.1	7.0	12.8	9.6	10.2	6.5
21	3.2	1.9	2.6	1.9	4.5	3.8	8.3	8.3	9.0	8.3	9.6	11.5	6.9
22	P N	3.2	1.9	1.9	3.2	3.8	4.5	5.8	— 2.6	1.9	1.3	1.9	1.4
23	0.0	3.8	4.5	N	5.8	8.3	10.9	12.8	14.1	16.6	21.8	26 9	6.9
24	1.9	1.3	2.6	3.2	5.8	7.0	24.3	14.1	9.6	14.1	19.8	16.0	10.6
25	1.3	—	—	—	—	—	—	—	10.2	16.0	13.4	16.0	10.6
26	5.8	5.1	5.8	6.4	7.7	13.4	17.3	— 14.1	13.4	26.2	26.2	22.4	11.0
27	—	—	—	—	—	—	—	—	—	—	—	—	15.7
28	5.1	5.8	5.8	7.7	9.6	17.9	14.7	N	N	N	41.6	18.6	13.2
29	1.9	1.9	3.2	3.2	6.4	9.0	10.2	10.9	14.1	14.7	14.7	13.4	15.7
30	2.6	3.2	3.2	3.8	4.5	7.7	28.2	P N	P N	P N	P N	3.2	7.8
31	5.1	3.2	3.8	3.8	4.5	7.0	11.5	12.8	14.1	17.3	16.6	18.6	11.2
Hourly Means.	3.2	4.1	5.0	4.8	6.1	9.3	11.4	10.7	12.2	14.5	15.6	12.8	9.3

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY.	1	9.96	9.54	9.36	9.39	9.97	10.29	10.49	10.52	10.56	10.30	10.14	9.94	—
	2	9.78	9.60	9.72	10.20	10.52	10.64	11.04	11.54	11.60	11.59	10.91	10.31	—
	3	10.96	10.76	10.76	10.84	11.44	11.94	12.31	12.64	13.02	13.22	13.22	12.89	—
	4	10.75	10.25	10.20	10.06	10.41	10.77	11.42	11.90	11.79	11.60	11.25	10.69	—
	5	10.51	10.10	10.29	10.16	10.51	10.81	11.57	12.12	12.12	12.06	11.60	11.00	—
	6	11.37	11.04	10.89	10.79	11.04	11.34	12.09	12.65	12.64	12.61	12.36	11.86	—
	7	11.39	10.95	10.76	10.67	10.85	11.02	11.61	11.93	11.75	11.66	11.46	11.06	—
	8	10.90	10.46	10.47	10.62	10.69	10.96	11.34	11.90	11.84	11.70	11.46	11.04	—
	9	9.74	9.45	9.66	9.63	9.83	10.30	11.01	11.56	11.86	11.56	11.24	10.76	—
	10	9.92	9.49	9.36	9.65	9.71	10.16	10.32	10.89	11.05	11.05	10.63	10.43	—
	11	9.99	9.60	9.66	9.62	9.99	10.09	10.34	11.02	11.21	11.11	11.15	10.86	—
	12	8.98	8.76	8.68	8.70	8.66	8.92	9.42	9.90	10.08	9.91	9.51	9.05	—
	13	9.09	8.66	8.64	8.30	8.41	8.68	8.69	9.66	10.60	10.54	9.94	9.40	—
	14	8.57	8.32	8.07	8.17	8.07	8.34	8.99	9.64	9.82	10.11	9.80	9.18	—
	15	9.54	9.16	8.74	8.45	8.15	8.26	8.80	9.33	9.46	9.69	9.54	9.16	—
	16	8.79	8.65	8.36	8.46	8.58	9.04	9.54	9.86	10.49	10.14	9.79	9.36	—
	17	9.86	9.31	8.98	8.94	9.00	9.22	9.50	10.12	10.21	9.87	9.24	8.92	—
	18	9.75	9.40	9.06	9.01	9.13	9.55	9.92	10.40	10.75	10.54	10.50	9.82	—
	19	10.25	9.75	9.14	9.26	9.28	9.57	10.44	10.62	10.51	10.47	10.35	10.24	—
	20	10.07	9.74	9.44	9.60	9.71	10.12	10.49	11.04	11.11	10.85	10.48	10.12	—
	21	10.08	9.83	9.24	9.35	9.76	9.99	10.31	11.02	11.30	11.09	10.93	10.48	—
	22	9.82	9.45	9.16	9.21	9.31	9.67	10.13	10.76	10.82	10.60	9.90	9.15	—
	23	9.13	8.64	8.30	8.37	8.47	8.79	9.12	9.66	9.89	9.90	9.63	8.93	—
	24	8.76	8.29	8.01	8.06	8.32	8.69	9.64	10.32	10.51	10.24	10.01	9.40	-
	25	9.76	9.56	9.01	9.17	9.64	9.91	10.14	10.66	11.11	11.09	10.85	10.38	—
	26	10.44	10.04	9.59	9.69	10.00	10.36	10.73	11.35	11.61	11.34	11.18	10.44	—
	27	9.95	9.66	9.27	9.22	9.44	9.65	9.90	10.29	10.47	10.13	9.73	8.89	-
	28	8.71	8.18	7.86	7.88	7.93	8.60	8.72	9.16	9.34	9.16	9.08	8.61	—
	29	8.13	7.92	7.52	8.11	8.44	8.49	9.02	9.20	9.54	9.65	9.50	8.96	—
Hourly Means.		9.83	9.47	9.25	9.30	9.49	9.80	10.24	10.75	10.93	10.82	10.53	10.05	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY.	1	9.68	9.05	8.43	7.99	8.49	8.85	9.87	10.35	10.81	10.78	10.69	10.16	9.82
	2	9.72	9.14	8.65	8.44	8.82	9.53	9.76	10.59	11.10	11.55	11.76	10.96	10.31
	3	12.40	11.72	10.15	9.91	10.14	10.45	11.35	11,62	12.12	12.20	11.87	11.45	11.64
	4	10.13	9.77	8.79	8.80	8.97	9.68	10.16	11.00	11.38	11.65	11.51	11.14	10.59
	5	10.53	10.08	9.83	9.18	9.78	10.28	10.92	11.38	11.93	12.11	12.14	11.71	10.95
	6	11.25	10.70	9.74	9.48	9.59	10.19	10.96	11.40	11.83	12.07	12.10	11.81	11.33
	7	10.36	9.43	8.87	8.47	8.59	9.41	9.94	10.70	11.15	11.23	11.31	11.06	10.65
	8	10.43	9.79	9.51	9.11	8.93	9.34	9.85	10.29	10.74	11.11	10.96	10.42	10.58
	9	10.01	9.42	8.91	8.93	8.99	9.34	10.00	10.26	10.81	10.97	10 94	10.49	10.24
	10	9.91	9.31	8.69	8.42	8.63	8.93	9.39	9.78	10.31	10.54	10.55	10.63	9.91
	11	10.42	9.42	8.86	8.35	8.26	8 74	8.85	9.23	9.62	10.20	9.94	9.57	9.84
	12	8.38	7.87	7.21	7.07	7.44	7.95	8.23	8.81	9.04	9.19	9.47	9.24	8.77
	13	8.76	8.07	7.53	7.41	7.58	7.85	8.79	9.03	9.51	9.76	9.54	8.86	8.89
	14	8.68	8.03	7.80	7.54	7.55	8.05	8.66	9.19	10.09	10.54	10.38	10.27	8.91
	15	8.78	8.50	8.09	7.63	7.94	8.65	8.80	9.13	9.30	9.48	9.41	9.28	8.89
	16	8.21	8.20	7.68	7.72	8.07	8.41	9.08	9.52	9.80	10.01	10.14	10.00	9.08
	17	8.05	7.43	7.27	7.00	7.59	8.39	8.91	9.41	9.54	10.00	10.01	10.04	9.03
	18	9.39	8.63	8.73	8.64	8.47	8.72	9.08	9.86	10.19	10.72	10.97	10.48	9.65
	19	9.26	8.63	8.17	8.12	8.60	9.28	10.14	10.83	10.85	11.31	11.22	10.82	9.88
	20	8.96	8.52	7.96	7.97	8.19	8.69	9.44	9.78	10.40	10.69	10.83	10.50	9.78
	21	9.73	9.38	9.18	9.74	9.55	9.36	9.45	10.02	10.29	10.75	10.71	10.32	10.08
	22	8.28	7.73	7.47	7.24	7.72	7.94	8.71	8.94	9.55	9.65	9.46	9.11	9.16
	23	7.88	6.78	6.72	6.39	6.91	7.32	7.66	8.30	9.04	9.45	9.39	9.25	8.50
	24	8.68	7.97	7.63	7.48	7.49	8.10	8.73	9.40	9 96	10.38	10.49	10.15	9.03
	25	9.64	9.01	8.63	8.56	9.19	9.46	9.66	10.49	10.76	11.17	11.34	10.89	9.99
	26	9.63	8.83	8.39	8.09	8.33	8.35	8.99	9.98	10.49	10.81	10.76	10.36	9.99
	27	8.04	7.11	6.61	6.16	6.15	6.81	7.32	8.13	8.78	9.09	9.25	8.91	8.71
	28	7.42	6.92	6.46	7.25	7.06	7.74	8.26	8.54	9.10	9.01	9.01	8.61	8.28
	29	8.42	7.59	7.35	7.23	7.35	7.82	8.17	8.96	9.68	9.88	9.86	9.75	8.61
Hourly Means.		9.35	8.73	8.25	8.08	8.29	8.74	9.28	9.82	10.28	10.56	10.55	10.22	9.69

STANDARD THERMOMETER.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	75.8	75.2	74.7	74.6	74.3	74.0	76.0	77.8	79.0	80.0	8.20	79.2	—
2	75.6	75.2	75.4	74.7	73.9	73.9	74.1	74.9	77.5	75.5	76.9	79.9	—
3	76.2	76.0	75.5	75.5	75.7	75.7	75.0	75.7	75.5	75.3	74.0	73.6	—
4	73.1	72.8	72.7	72.6	72.2	72.4	73.1	75.0	76.8	79.8	81.3	81.7	—
5	75.6	75.1	73.5	74.0	74.3	74.6	74.6	75.3	75.2	76.6	79.0	78.5	—
6	73.9	73.6	74.1	73.9	73.9	73.6	73.6	74.0	73.8	76.0	77.6	75.5	—
7	74.0	73.8	73.4	73.0	73.0	72.8	73.8	76.5	77.7	78.5	79.3	79.3	—
8	75.5	75.0	75.0	75.0	73.9	73.5	73.3	73.9	75.9	77.9	79.1	79.1	—
9	75.0	74.6	74.1	73.4	72.8	72.3	71.2	71.0	72.0	72.0	74.9	76.1	—
10	75.4	74.8	74.1	73.4	73.8	74.0	74.1	75.3	77.1	79.4	80.7	81.1	—
11	74.4	74.3	73.8	73.6	73.1	73.4	74.0	74.2	75.2	76.6	75.0	73.2	—
12	73.3	73.3	72.8	72.2	72.0	72.0	72.5	74.3	76.5	79.4	82.3	82.6	—
13	77.0	76.4	76.1	75.8	75.8	75.8	75.4	75.8	74.0	73.1	74.1	76.1	—
14	74.7	74.9	74.9	74.7	74.7	74.6	74.8	75.0	75.2	75.7	77.4	80.3	—
15	74.0	73.4	73.2	73.4	73.0	73.0	73.0	74.9	77.1	80.0	82.0	82.1	—
16	76.7	76.5	76.2	76.0	75.9	75.7	76.2	78.0	79.0	80.0	81.2	82.0	—
17	76.1	76.1	75.7	75.4	75.0	74.4	75.0	77.4	80.1	81.6	84.4	85.0	—
18	75.8	75.5	75.2	75.0	74.6	74.4	74.8	77.0	80.2	81.0	82.1	83.0	—
19	76.6	76.0	75.0	74.5	73.7	73.5	74.0	76.9	79.8	82.4	84.7	83.7	—
20	73.2	73.1	73.1	73.0	72.8	72.4	73.1	76.4	79.5	81.5	83.0	83.7	—
21	75.3	75.0	74.9	74.7	74.1	73.8	74.2	77.0	79.2	82.2	82.0	82.0	—
22	72.5	72.3	72.5	72.3	72.1	71.9	72.1	73.5	77.2	80.3	82.5	84.2	—
23	75.8	75.3	74.9	74.5	74.1	73.4	74.0	76.6	79.2	81.0	82.2	82.0	—
24	75.7	75.1	74.9	74.4	74.0	73.7	74.6	77.1	80.1	82.1	83.2	84.5	—
25	75.0	75.0	74.8	74.0	73.8	73.6	74.0	76.7	78.5	80.0	83.0	84.5	—
26	74.4	74.2	74.1	73.4	73.0	72.7	73.0	75.0	77.0	79.0	80.2	82.8	—
27	74.2	74.8	74.8	74.2	73.9	73.9	74.4	75.8	78.4	81.6	83.2	83.4	—
28	76.5	76.0	75.6	75.5	75.2	74.8	74.8	75.7	77.0	78.0	81.4	82.8	—
29	74.2	73.7	73.4	73.0	72.7	72.4	72.9	75.2	77.9	80.1	82.0	83.6	—
Hourly Means.	75.02	74.72	74.43	74.13	73.84	73.66	73.99	75.58	77.30	78.85	80.37	80.88	—

FEBRUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	79.5	78.5	79.6	79.8	79.6	79.0	78.0	77.1	77.3	77.0	76.4	75.9	77.51
2	81.8	82.4	82.6	81.8	80.5	79.6	78.4	77.3	76.8	76.5	76.5	76.0	77.40
3	73.8	72.9	74.6	76.2	77.0	77.0	76.2	75.8	75.5	74.8	74.0	73.2	75.20
4	81.3	81.0	81.0	80.3	80.7	80.0	79.3	78.4	78.2	78.0	77.4	76.3	77.31
5	80.6	81.0	80.4	80.0	79.8	79.3	77.1	75.9	75.0	75.2	74.6	74.0	76.63
6	77.5	79.2	79.5	79.0	79.2	79.0	77.7	76.5	75.5	75.0	74.4	74.2	75.84
7	81.2	81.5	82.0	80.8	79.6	79.0	78.5	78.0	77.1	76.1	76.1	75.8	77.12
8	81.0	81.2	81.0	81.0	80.4	79.2	77.2	76.3	76.0	76.0	76.0	75.6	77.00
9	77.5	79.9	81.0	80.8	80.1	79.1	77.4	76.4	75.9	76.1	76 0	75.6	75.63
10	81.3	81.3	81.7	81.0	80.1	79.6	78.8	78.0	77.6	77.2	77.0	73.7	77.52
11	73.1	75.0	78.0	77.8	79.0	77.9	76.8	76.0	75.4	74.9	74.4	73.5	75.11
12	83.0	83.4	83.1	82.0	81.0	80.2	79.7	79.6	79.0	79.0	78.5	78.1	77.91
13	77.4	79.7	81.3	82.0	80.8	79.7	78.6	77.5	76.2	75.8	75.2	75.0	76.86
14	81.1	81.7	81.2	81.2	81.0	80.0	79.3	78.1	77.2	75.7	74.5	74.3	77.18
15	82.5	83.0	82.0	82.2	81.5	80.1	79.4	78.6	78.0	78.0	77.7	77.1	77.88
16	82.2	80.5	79.7	80.8	79.9	79.2	78.3	77.8	77.0	76.7	76.3	76.3	78.25
17	85.3	85.8	84.3	83.0	82.2	79.6	78.1	77.2	76.6	76.1	75.9	75.7	79.00
18	84.0	84.4	84.2	82.5	81.0	79.2	78.7	77.8	77.2	77.5	77.6	77.2	78.75
19	84.5	84.7	84.7	83.0	82.7	81.8	78.4	72.4	72.3	73.1	73.4	73.3	78.13
20	84.4	84.1	84.1	83.6	81.4	79.0	78.6	78.0.	77.1	76.6	76.6	75.9	78.09
21	80.1	79.9	79.5	75.0	74.0	73.6	73.2	73.0	73.0	73.1	73.0	72.9	76.03
22	83.4	83.0	83.1	82.6	82.0	81.0	78.0	76.5	76.2	76.0	75.8	75.5	77.35
23	83.6	84.0	82.8	83.7	81.4	79.6	79.0	78.5	77.8	77.1	76.8	76.5	78 49
24	78.2	79.7	74.2	75.8	76.4	76.4	76.4	75.8	75.2	75.0	75.4	75.2	76.80
25	86.0	85.9	85.6	79.6	75.6	75.0	74.6	74.4	74.4	74.2	74.2	74.2	77.36
26	83.0	84.1	83.4	83.3	82.2	80.2	80.0	79.1	78.0	77.0	75.9	74.8	77.91
27	81.5	84.2	85.5	83.6	83.0	82.0	80.4	79.0	78.1	77.5	77.5	77.1	78.83
28	83.1	82.4	83.0	76.5	75.8	75.5	75.6	75.2	75.2	75.2	75.2	75.0	77.13
29	83.8	83.8	83.8	83.0	82.0	81.0	80.0	77.4	76.6	76.0	75.6	75.1	77.88
Hourly Means.	81.23	81.66	81.62	80.76	80.00	79.03	77.99	76.95	76.39	76.08	75.79	75.28	77.31

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY.	1	923	930	939	922	939	956	915	876	847	841	750	886	—
	2	940	957	948	956	956	956	956	956	917	931	966	833	—
	3	957	957	957	966	966	957	947	905	931	948	947	938	—
	4	955	955	955	964	973	973	973	930	875	810	777	736	—
	5	931	939	947	956	965	930	939	914	939	874	839	877	—
	6	947	956	947	956	956	938	920	878	956	916	907	923	—
	7	956	956	965	964	964	964	947	899	860	853	823	794	—
	8	948	956	966	947	938	903	938	947	915	836	808	733	—
	9	922	930	947	956	964	964	954	963	955	946	905	906	—
	10	939	930	947	965	965	973	973	914	875	765	717	712	—
	11	947	947	965	973	964	973	965	982	983	916	905	920	—
	12	946	946	955	964	964	964	964	930	891	832	765	731	—
	13	949	957	966	974	974	974	974	966	965	964	982	974	—
	14	947	939	939	939	947	956	956	966	966	957	917	842	—
	15	930	938	955	956	964	964	964	863	867	818	764	751	—
	16	940	948	957	948	948	948	940	884	854	848	813	807	—
	17	948	931	931	957	956	965	956	883	781	763	730	697	—
	18	948	957	957	947	956	947	947	891	804	813	758	767	—
	19	924	931	947	956	956	947	938	866	810	745	717	706	—
	20	956	956	946	946	946	955	955	899	816	748	675	699	—
	21	939	947	947	939	956	956	965	883	809	715	771	750	—
	22	964	973	964	964	964	955	955	929	835	753	703	722	—
	23	923	947	947	947	947	946	921	882	839	776	729	778	—
	24	948	957	956	956	965	956	939	892	825	772	733	723	—
	25	939	914	922	930	930	929	930	843	777	796	718	636	—
	26	930	930	930	956	955	964	964	939	875	847	811	745	—
	27	938	930	930	947	956	956	939	923	861	785	705	740	—
	28	932	940	940	931	930	913	904	872	827	798	741	732	—
	29	956	956	965	965	964	973	964	931	868	825	771	734	—
Hourly Means.		942	945	950	953	956	954	948	911	873	834	798	786	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY.	1	855	862	810	818	810	832	884	924	925	932	940	940	886
	2	749	758	751	749	789	802	869	900	924	940	948	948	892
	3	938	937	939	923	916	932	940	957	931	947	956	956	944
	4	756	769	776	796	797	818	863	893	837	868	884	915	869
	5	753	768	788	803	817	839	827	872	913	914	930	938	884
	6	908	840	810	832	824	809	875	923	931	947	956	956	909
	7	748	691	707	710	728	778	792	806	875	899	906	890	853
	8	747	712	704	711	681	764	828	866	899	915	899	906	853
	9	844	758	739	668	730	778	851	906	923	931	931	931	888
	10	712	712	699	733	752	772	822	852	884	907	916	938	849
	11	911	840	768	845	771	806	850	856	872	904	930	938	905
	12	711	698	703	742	769	811	833	871	894	909	926	933	861
	13	933	817	776	758	789	848	885	892	899	906	931	939	916
	14	783	749	755	762	776	841	886	884	875	923	930	939	891
	15	745	760	778	758	799	864	879	909	933	925	933	949	874
	16	800	835	855	746	787	832	885	901	932	948	948	948	886
	17	712	681	716	760	801	863	877	925	924	923	923	931	856
	18	700	736	687	737	754	808	846	884	916	907	917	916	854
	19	708	723	737	759	751	784	821	910	936	946	965	965	852
	20	676	675	701	720	770	854	853	852	883	906	915	931	843
	21	849	879	863	913	947	947	965	946	955	946	955	955	904
	22	713	704	704	759	764	798	813	857	849	890	898	905	847
	23	755	735	766	727	770	824	831	846	884	907	924	932	853
	24	853	886	912	931	923	923	915	940	947	956	939	930	903
	25	656	681	712	734	880	922	956	947	947	947	947	956	856
	26	719	688	783	761	758	811	796	816	852	883	915	930	857
	27	836	682	686	782	802	800	767	838	877	867	892	907	848
	28	739	751	746	890	923	939	931	939	948	948	948	947	880
	29	700	706	700	724	771	812	871	907	916	940	940	939	867
Mean Batavia Time		776	760	761	778	798	835	862	890	906	920	929	935	875

DIRECTION OF THE WIND.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
FEBRUARY. 1	C	C	C	C	C	N	N	N	N	NNW	NW	N
2	N	N	N	N	NE	NE	NE	NE	NNE	NNW	NW	NNW
3	N	C	C	C	C	N	N	N	NNW	NNW	NNW	NNW
4	C	C	C	NW	C	C	NW	NW	NW	NW	NNW	NW
5	NNW	NNW	NW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NNW
6	N	N	N	N	C	N	N	N	N	N	N	NW
7	N	N	N	N	N	N	N	N	N	NNW	NW	NNW
8	C	C	N	N	NNW	NNW	N	N	NNW	N	NNW	NNW
9	N	NNE	N	NNE	NNW	NW	NW	WNW	WNW	WNW	WSW	SW
10	N	N	N	N	C	N	N	N	NNW	NNW	N	N
11	NNW	NNW	NNW	NNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW
12	C	C	C	C	C	C	C	C	W	NW	NW	NW
13	NNE	NNE	NNE	NNE	NNE	N	WNW	NNW	E	ESE	ESE	ESE
14	C	C	C	N	N	N	N	N	N	N	ENE	NE
15	W	W	W	C	C	W	W	C	W	W	NE	NE
16	NE	NE	NE	NE	C	NE	E	ESE	SE	E	E	E
17	N	N	C	N	C	C	N	N	N	N	NNW	NE
18	C	WSW	WSW	C	C	C	WSW	WSW	WSW	NW	N	NE
19	C	SW	SW	C	C	C	SW	SW	SW	SW	ENE	NE
20	C	C	S	S	C	C	C	S	S	NW	NW	N
21	SW	SW	SW	C	SW	C	C	SW	SW	SW	WNW	N
22	SW	C	SW	SW	SW	SW	SW	C	SW	SW	SW	N
23	C	C	C	NNE	NNE	NNE	NNE	NNE	NNE	NW	NNW	NNW
24	C	C	C	C	C	WNW	WNW	WNW	NW	NW	NNW	N
25	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	WNW
26	SE	SE	C	SE	SE	SE	SE	SE	NW	NW	NNE	NW
27	C	WSW	C	C	C	C	C	WSW	W	NW	NNW	NW
28	C	C	C	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW
29	WSW	WSW	WSW	C	WSW	WSW	WSW	WSW	W	NW	NW	NW

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
FEBRUARY. 1	N	N	N	N	N	N	C	N	N	C	N	N
2	N	NNW	N	N	N	N	N	C	C	C	C	N
3	NNW	NNW	NNW	NW	NW	C	C	NW	NW	NW	C	NW
4	NNW	N	N	NNW	N	NNW	NNW	NNW	N	NNW	NNW	NNW
5	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N
6	NNW	N	N	N	N	N	N	C	C	N	N	N
7	NNW	NNW	NNW	N	N	N	N	C	C	N	N	N
8	N	N	N	NNE	NNE	N	C	C	C	C	N	N
9	N	NNW	N	N	N	N	C	C	N	N	N	N
10	N	N	NNE	NNE	N	N	N	C	C	C	N	NNW
11	WNW	NW	W	W	W	W	W	W	W	C	C	C
12	NNW	N	NNW	N	N	N	NNE	NNE	C	C	NNE	NNE
13	NW	NNW	NNW	N	N	N	N	N	N	C	N	C
14	NE	N	NNE	N	N	N	N	W	W	W	W	W
15	NE	N	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE
16	N	N	N	N	N	N	N	N	N	N	N	N
17	N	NNE	NNE	N	N	N	WSW	WSW	WSW	WSW	WSW	C
18	NE	NNE	NW	W	WSW	SW	C	C	C	C	SW	C
19	NE	NE	NE	NE	NE	NNE	WSW	S	S	S	S	S
20	NNE	N	NNE	NNW	WSW	SW	SW	SW	C	C	SW	SW
21	N	N	N	SW	SW	SW	SW	SW	SW	SW	SW	SW
22	NNE	N	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NNE	C
23	N	NNW	NNW	NNW	WNW	WNW	WNW	WNW	C	C	C	WNW
24	N	NW	W	WNW	WNW	WNW	WNW	C	C	C	C	WNW
25	WNW	NW	NNW	S	SE	SE	SE	SE	SE	SE	SE	SE
26	NW	NNW	NNW	N	WSW	SW	SW	C	WSW	C	C	C
27	NNW	NNW	NW	NW	NNW	NW	WNW	WNW	WNW	WNW	WNW	C
28	NNW	N	N	SW	WSW	WSW	WSW	WSW	C	WSW	WSW	WSW
29	NNW	NNW	N	NNE	NNE	NNE	NNE	WNW	W	W	C	W

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0,0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	2.4	5.6	9.7	12.1	—
2	1.6	1.6	1.6	5.6	8.0	0.8	0.8	1.6	3.2	4.8	3.2	8.0	—
3	0.8	0.0	0.0	0.0	0.0	3.2	5.6	7.2	8.0	4.8	8.9	9.7	—
4	0.0	0.0	0.0	0.8	0.0	0.0	0.8	3.2	5.6	8.9	12.1	12.9	—
5	0.8	4.8	8.9	4.0	1.6	4.8	3.2	1.6	6.4	12.9	12.9	14.5	—
6	0.8	1.6	2.4	0.8	0.0	2.4	0.8	1.6	0.8	1.6	3.2	4.8	—
7	0.8	0.8	0.8	0.8	1.6	1.6	3.2	1.6	6.4	11.3	12.9	14.5	—
8	0.0	0.0	0.8	4.0	12.9	6.4	4.8	1.6	4.0	8.0	9.7	11.3	—
9	3.2	2.4	3.2	4.8	4.8	7.2	0.8	0.8	3.2	4.8	6.4	4.0	—
10	0.8	0.8	3.2	2.4	0.0	0.8	0.8	1.6	5.6	12.1	14.5	12.1	—
11	0.8	0.8	2.4	3.2	2.4	2.4	1.6	0.8	1.6	7.2	8.9	10.5	—
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.2	11.3	12.9	—
13	0.8	1.6	1.6	1.6	2.4	2.4	3.2	8.0	8.0	1.6	1.6	3.2	—
14	0.0	0.0	0.0	0.8	1.6	0.8	3.2	3.2	0.8	2.4	4.0	6.4	—
15	1.6	0.8	0.8	0.0	0.0	0.8	0.8	0.0	2.4	4.8	8.9	11.3	—
16	1.6	0.8	1.6	0.8	0.0	3.2	4.8	6.4	4.8	4.8	4.8	6.4	—
17	1.6	0.8	0.0	0.8	0.0	0.0	3.2	0.8	3.2	4.0	6.4	8.9	—
18	0.0	0.8	1.6	0.0	0.0	0.0	0.8	0.8	3.2	4.8	8.0	12.9	—
19	0.0	0.8	0.8	0.0	0.0	0.0	0.8	3.2	1.6	4.8	10.5	9.7	—
20	0.0	0.0	0.8	0.8	0.0	0.0	0.0	1.6	3.2	5.6	4.8	8.9	—
21	0.8	1.6	0.8	0.0	0.8	0.0	0.0	0.8	4.0	4.8	8.0	13.7	—
22	0.8	0.0	0.8	1.6	1.6	1.6	1.6	0.0	1.6	2.4	4.0	9.7	—
23	0.0	0.0	0.0	3.2	1.6	3.2	0.8	0.8	4.0	6.4	8.0	9.7	—
24	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	6.4	6.4	8.0	9.7	—
25	2.4	4.0	3.2	1.6	1.6	1.6	1.6	5.6	5.6	5.6	6.4	5.6	—
26	1.6	1.6	0.0	1.6	1.6	0.8	1.6	2.4	4.8	4.0	5.6	6.4	—
27	0.0	1.6	0.0	0.0	0.0	0.0	0.0	2.4	5.6	8.9	11.3	10.5	—
28	0.0	0.0	0.0	1.6	1.6	3.2	3.2	3.2	7.2	8.0	12.9	12.9	—
29	1.6	0.8	1.6	0.0	0.8	1.6	3.2	1.6	4.8	8.0	10.5	12.1	—
Hourly Means.	0.77	0.97	1.27	1.41	1.55	1.74	1.88	2.29	4.19	6.09	8.19	9.84	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	12.9	9.7	9.7	8.0	6.4	1.6	0.0	0.8	0.8	0.0	0.8	0.8	3.55
2	9.7	8.0	10.5	9.7	8.9	4.8	0.8	0.0	0.0	0.0	0.0	0.8	3.92
3	11.3	6.4	4.0	1.6	0.8	0.0	0.0	1.6	0.8	1.6	0.0	0.8	3.21
4	13.7	14.5	12.9	10.5	9.7	8.9	3.2	2.4	8.0	4.8	4.0	3.2	5.84
5	14.5	13.7	12.9	10.5	6.4	3.2	1.6	0.8	0.8	0.8	0.8	1.6	6.00
6	4.0	8.0	9.7	6.4	7.2	6.4	0.8	0.0	0.0	0.8	0.8	0.8	2.74
7	13.7	12.9	11.3	9.7	6.4	1.6	0.8	0.0	0.0	0.8	0.8	0.8	4.80
8	11.3	13.7	10.5	10.5	6.4	1.6	0.0	0.0	0.0	0.0	0.8	0.8	4.96
9	7.2	12.9	13.7	10.5	9.7	3.2	0.0	0.0	0.8	0.8	3.2	2.4	4.58
10	13.7	12.1	13.7	11.3	8.0	4.8	0.8	0.0	0.0	0.0	3.2	6.4	5.36
11	8.0	6.4	6.4	5.6	4.8	1.6	1.6	0.8	0.8	0.0	0.0	0.0	3.28
12	12.9	12.9	12.1	10.5	9.7	6.4	4.0	1.6	0.0	0.0	0.8	3.2	4.53
13	6.4	8.9	8.0	8.0	6.4	0.8	0.8	1.6	1.6	0.0	0.8	0.0	3.30
14	12.9	12.9	12.1	9.7	4.8	0.8	1.6	2.4	4.8	3.2	3.2	1.6	3.88
15	8.0	8.0	9.7	7.2	7.2	5.6	0.8	0.8	1.6	2.4	2.4	0.8	3.61
16	8.0	8.0	8.0	6.4	2.4	0.8	2.4	1.6	1.6	0.8	0.8	0.8	3.40
17	11.3	12.9	12.1	6.4	3.2	4.8	3.2	1.6	1.6	1.6	0.8	0.0	3.72
18	13.7	12.1	6.4	8.0	6.4	3.2	0.0	0.0	0.0	0.0	0.8	0.0	3.48
19	10.5	14.5	16.1	12.9	10.5	6.4	10.5	9.7	2.4	0.8	0.8	0.8	5.34
20	11.3	12.1	12.1	6.4	7.2	4.8	1.6	1.6	0.0	0.0	0.8	0.8	3.52
21	8.0	5.6	6.4	6.4	8.0	4.8	4.8	2.4	0.8	1.6	3.2	0.8	3.67
22	12.9	11.3	12.1	12.1	8.9	4.8	5.6	4.0	1.6	0.8	0.8	0.0	4.19
23	9.7	11.3	10.5	11.3	4.8	1.6	2.4	1.6	0.0	0.0	0.0	0.8	3.82
24	6.4	8.0	4.8	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	1.6	2.57
25	4.0	4.8	6.4	14.5	4.8	1.6	2.4	1.6	0.8	1.6	1.6	0.8	3.74
26	8.0	8.9	9.7	8.0	4.0	0.8	2.4	0.0	0.8	0.0	0.0	0.0	3.11
27	11.3	12.1	9.7	4.8	7.2	4.8	0.8	0.8	0.8	1.6	0.8	0.0	3.96
28	13.7	16.1	12.1	6.4	3.2	1.6	1.6	0.8	0.0	0.8	1.6	1.6	4.72
29	13.7	15.3	12.9	12.1	8.9	3.2	3.2	4.8	0.8	0.8	0.0	0.8	5.13
Hourly Means.	10.44	10.83	10.22	8.52	6.34	3.31	2.02	1.49	1.08	0.88	1.16	1.13	4.07

CLOUDS.

CLEAR = 0. OVERCAST = 10.

FEBRUARY. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	3	3	4	6	8	9	10	10	10	9	10	—
2	10	10	10	10	10	10	10	10	9	10	9	9	—
3	9	10	9	10	10	10	10	10	10	10	10	10	—
4	6	5	4	3	2	3	7	7	6	7	9	8	—
5	7	10	10	10	10	10	10	10	10	9	6	10	—
6	4	7	10	9	9	9	10	10	10	10	10	10	—
7	4	3	3	3	5	7	9	8	8	9	9	9	—
8	10	9	10	10	10	10	10	10	10	10	10	10	—
9	6	9	10	10	10	10	10	10	10	10	10	10	—
10	4	2	10	10	10	10	10	10	10	6	9	7	—
11	10	10	10	9	10	10	10	10	10	10	10	10	—
12	6	7	6	5	5	10	9	8	8	5	5	8	—
13	10	10	10	10	10	10	10	10	10	10	10	10	—
14	6	5	7	8	10	10	10	10	10	10	10	9	—
15	10	10	10	10	7	6	5	7	6	8	6	6	—
16	7	6	4	7	6	10	10	10	10	10	10	10	—
17	9	10	10	8	5	5	6	4	6	6	4	3	—
18	7	3	9	4	5	9	4	3	4	7	5	4	—
19	8	5	4	6	5	6	6	5	3	4	5	6	—
20	2	0	0	1	1	2	3	2	1	2	1	5	—
21	4	5	3	2	3	3	3	3	3	4	6	9	—
22	7	9	9	10	10	10	10	9	6	7	4	5	—
23	9	3	2	3	4	4	4	4	5	9	10	10	—
24	2	6	7	8	6	8	6	6	5	7	7	7	—
25	9	9	8	2	2	3	1	2	6	9	8	7	—
26	8	9	7	4	3	8	5	6	7	7	7	9	—
27	9	9	9	6	8	10	10	9	9	9	8	9	—
28	9	9	10	10	10	9	10	9	9	9	6	6	—
29	10	6	5	6	6	6	4	2	3	3	7	7	—
Hourly Means.	7.0	6.9	7.2	6.8	6.8	7.8	7.6	7.4	7.4	7.8	7.6	8.0	—

FEBRUARY. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	10	10	10	10	6	5	3	7	9	8	7	6	7.3
2	9	9	8	7	8	8	6	8	8	8	8	9	8.9
3	10	10	9	9	8	7	8	9	1	0	1	2	8.0
4	10	10	10	8	10	10	7	4	3	3	2	5	6.2
5	7	9	9	9	8	8	9	4	3	3	3	4	7.8
6	10	10	8	10	8	6	6	4	3	4	3	6	7.8
7	9	8	8	7	7	8	6	10	6	10	10	10	7.3
8	7	6	7	5	3	3	2	1	10	9	4	1	7.4
9	10	10	8	8	7	7	4	3	5	8	7	5	8.2
10	6	6	6	8	9	7	4	4	7	10	8	10	7.6
11	10	10	10	10	10	6	9	7	4	6	8	7	9.0
12	6	5	3	3	5	6	5	8	10	10	10	10	6.8
13	10	9	9	9	9	9	10	5	3	4	4	4	8.5
14	9	7	7	7	6	7	8	5	9	9	10	10	8.3
15	8	8	9	9	10	10	6	5	5	6	6	5	7.4
16	10	10	10	10	10	10	10	7	8	4	7	6	8.4
17	4	4	4	6	9	9	10	10	10	10	10	10	7.2
18	8	8	7	8	6	9	9	4	10	10	10	9	6.8
19	4	5	7	9	9	10	10	10	9	7	6	4	6.4
20	2	1	2	3	7	6	8	7	7	8	7	7	3.5
21	10	10	10	10	10	10	10	10	10	10	10	6	6.8
22	4	5	3	4	6	7	10	8	10	10	8	6	7.4
23	9	8	9	8	10	9	10	10	7	9	9	7	7.2
24	10	10	10	10	10	10	9	8	9	8	9	8	7.8
25	8	9	10	10	10	10	10	10	10	6	10	8	7.4
26	9	9	7	5	7	3	3	2	2	2	4	6	5.8
27	8	5	7	10	9	9	10	10	10	10	10	10	8.9
28	9	9	9	10	10	10	10	10	9	9	6	3	8.8
29	7	4	4	5	6	8	9	10	9	8	6	7	6.2
Hourly Means.	8.0	7.7	7.6	7.8	8.0	7.8	7.6	6.9	7.1	7.2	7.0	6.6	7.40

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	13.4	10.9	14.1	9.6	7.0	10.9	15.4	8.3	5.8	5.8	3.8	— 9.6	—
2	20.5	17.3	N	15.4	P N	5.1	16.0	24.3	10.9	N	N	3.8	—
3	4.5	10.2	17.3	16.6	17.9	N	10.2	P N	P N	P N	P N	P N	—
4	21.8	22.4	23.0	19.2	18.6	19.2	17.3	10.9	9.0	4.5	5.1	4.5	—
5	9.0	—	—	—	4.5	6.4	7.7	6.4	— 4.5	3.8	3.8	0.6	—
6	17.9	P N	P N	N	5.1	8.3	21.4	— 1.3	8.3	6.4	4.5	N	—
7	19.2	22.4	19.2	—	—	22.4	5.1	— 1.3	7.0	8.3	4.5	1.9	—
8	10.9	17.3	8.3	P	N	N	— 2.6	5.8	9.6	6.4	6.4	4.5	—
9	12.2	5.1	N	N	— 1.3	—	1.9	— 0.6	3.2	3.8	4.5	1.3	—
10	3.8	3.2	1.9	P N	— 0.6	— 0.6	8.3	3.2	1.9	3.2	3.2	1.9	—
11	—	—	—	—	—	—	—	3.2	2.6	N	—	—	—
12	—	—	—	—	—	—	—	8.3	7.7	5.8	3.8	—	—
13	—	—	—	—	—	—	—	P N	P N	P N	P N	8.3	—
14	9.0	6.4	3.2	— 3.2	3.8	3.2	4.5	9.6	0.6	6.4	3.8	1.9	—
15	1.3	1.9	2.6	5.8	7.0	7.7	12.8	—	—	—	—	—	—
16	—	—	—	—	13.4	11.5	12.2	17.9	17.3	—	—	2.6	—
17	12.8	7.7	10.9	10.2	7.0	13.4	14.1	4.5	—	—	—	—	—
18	8.3	10.9	7.7	6.4	9.0	7.0	11.5	—	—	—	—	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—	—
20	11.5	10.9	17.3	10.2	7.7	9 6	19.2	—	—	—	—	—	—
21	17.9	16.0	11.5	14.7	14.7	14.1	18.6	15.4	5.8	3.8	6.4	2.6	—
22	19.8	19.8	17.3	15.4	11.5	12.8	12.8	—	—	—	5.1	5.8	—
23	15.2	17.9	23.0	20.7	10.6	9.7	11.0	7.4	5.5	4.1	4.1	3.7	—
24	20.2	15.2	17.0	12.9	18.4	19.8	18.9	11.0	4.1	3.7	4.1	3.7	—
25	6.9	6.0	7.8	7.8	6.9	6.4	7.4	5.5	5.5	4.6	2.3	3.2	—
26	9.7	10.1	10.6	13.3	14.7	17.5	23.9	18.4	8.7	8.3	6.0	6.0	—
27	25.2	16.6	12.4	12.0	11.0	13.3	16.1	10.6	7.8	5.5	3.7	6.0	—
28	14.3	13.8	13.8	12.9	14.3	16.1	12.0	5.5	8.7	7.8	6.0	5.5	—
29	20.2	23.9	28.0	23.0	22.5	23.4	30.3	17.9	10.1	5.1	4.6	4.1	—
Hourly Means.	13.6	13.0	13.3	12.4	10.2	11.7	13.0	8.7	6.5	5.4	4.5	3.1	—

FEBRUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	9.0	5.1	5.8	6.4	7.7	— 3.8	13.4	28.8	10.2	8.3	14.1	10.9	8.8
2	3.8	4.5	5.1	4.5	5.8	9.0	14.1	17.9	19.2	8.3	9.6	N	11.3
3	P N	P N	9.0	3.8	6.4	11.5	23.7	15.4	20.5	22.4	20.5	22.4	14.5
4	6.4	4.5	6.4	7.7	13.4	—	—	10.2	10.2	9.0	8.3	N	12.0
5	3.2	3.2	3.8	7.0	9.6	12.8	14.7	23.7	22.4	26.2	27.5	25.6	10.4
6	5.1	3.2	5.8	6.4	8.3	9.0	12.2	18.6	19.8	18.6	20.5	21.8	11.0
7	3.2	1.9	2.6	2.6	4.5	8.3	9.6	13.4	14.1	17.3	1.9	6.4	8.8
8	5.8	5.1	5.8	5.1	3.8	6.4	13.4	15.4	13.4	12.2	12.8	15.4	8.6
9	1.9	1.9	2.6	3.2	3.2	4.5	5.8	5.8	6.4	6.4	5.8	4.5	3.9
10	1.9	1.9	1.9	3.2	—	—	—	—	—	—	—	—	2.6
11	—	—	—	3.2	6.4	1.9	10.9	—	—	—	—	—	4.7
12	—	—	—	—	—	—	—	—	—	—	—	—	6.4
13	0.0	1.3	1.9	5.8	P N	P N	N	7.7	11.5	10.2	8.3	10.9	6.6
14	1.9	—	—	—	—	—	—	—	—	—	—	5.8	4.1
15	—	—	—	—	—	—	—	—	—	—	—	—	5.6
16	2.6	—	—	3.8	21.8	—	5.8	10.9	10.9	12.2	11.5	10.9	11.0
17	—	—	—	—	—	—	—	—	—	9.6	9.0	9.6	9.9
18	—	—	—	—	—	—	—	—	—	—	—	—	8.7
19	—	—	—	—	—	—	—	—	—	14.1	13.4	10.9	12.8
20	—	1.9	3.8	6.4	9.0	5.8	5.8	13.4	14.1	14.1	14.7	16.6	10.7
21	P N	P N	P N	P N	P N	P N	1.9	16.6	21.1	16.6	12.8	16.0	12.6
22	2.6	6.4	5.8	7.0	14.1	36.5	0.0	16.0	19.2	19.8	15.4	19.8	13.5
23	3.7	4.1	7.4	12.9	6.4	5.1	9.2	16.6	13.8	14.3	15.6	15.2	10.7
24	N	P N	P N	23.9	7.4	9.7	10.6	18.9	20.7	19.8	17.5	9.2	13.7
25	4.6	3.7	5.1	P N	P N	P N	N	7.8	17.0	23.9	24.3	16.1	8.6
26	6.0	6.0	6.9	5.1	18.4	8.3	14.3	13.8	15.2	17.0	22.1	21.6	12.6
27	3.2	3.2	— 11.5	2.3	6.4	6.9	10.6	18.4	17.9	15.2	14.3	13.3	10.0
28	2.8	4.1	12.4	P N	P N	P N	P N	P N	— 5.1	13.3	24.3	15.6	10.4
29	4.1	4.1	6.0	8.3	12.9	20.2	16.1	N	N	6.9	19.8	23.4	15.2
Hourly Means.	3.8	3.7	4.6	6.4	9.2	9.5	10.7	15.2	14.6	14.6	15.0	14.6	9.89

BAROMETRIC PRESSURE.

BAROMETER AT 0°C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

MARCH.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	9.46	8.84	8.51	8.49	8.32	8.59	8.71	9.38	9.86	9.25	9.36	8.89	—
2	9.09	8.95	8.83	8.85	9.18	9.40	9.57	10.05	10.39	9.99	9.68	9.21	—
3	9.43	9.15	9.12	9.41	9.41	9.54	9.66	10.19	10.21	10.00	9.49	9.04	—
4	9.18	8.68	8.58	8.83	8.88	9.29	9.64	10.21	10.41	10.40	10.15	9.51	—
5	9.31	8.75	8.55	8.35	8.36	9.11	10.11	10.46	10.31	10.08	9.89	9.35	—
6	9.30	8.98	8.79	8.70	9.07	9.66	9.99	10.67	10.99	10.79	10.68	9.96	—
7	10.25	9.68	9.49	9.61	9.92	10.09	10.26	10.91	10.94	10.73	10.54	9.78	—
8	9.25	8.92	8.64	8.60	8.80	9.12	9.60	10.08	10.22	10.26	9.99	9.41	—
9	8.72	8.37	8.30	8.27	8.50	8.81	9.12	9.54	9.71	9.59	9.41	8.93	—
10	9.47	9.04	8.74	8.79	9.04	9.42	10.08	10.49	10.97	10.96	10.48	10.06	—
11	10.11	9.50	9.12	9.15	9.36	9.69	10.04	10.72	10.63	10.39	10.73	9.87	—
12	9.96	9.61	9.05	9.01	9.41	9.91	10.31	10.50	10.90	10.91	10.57	9.92	—
13	10.63	10.05	9.93	9.70	9.81	9.88	10.40	11.18	11.61	11.45	11.21	10.78	—
14	11.03	10.74	10.35	10.40	10.36	10.60	11.25	11.55	12.01	11.79	11.63	10.85	—
15	11.05	10.50	9.96	9.76	10.02	10.64	11.04	11.25	11.30	11.19	10.96	10.46	—
16	9.04	8.62	8.51	8.70	8.78	9.10	9.62	10.11	10.44	10.09	9.47	8.86	—
17	10.09	9.88	9.90	10.12	10.50	10.48	10.56	10.64	11.05	11.39	10.89	10.39	—
18	10.51	9.90	9.81	9.58	9.95	9.97	10.59	10.76	11.06	11.15	10.57	9.94	—
19	10.31	10.05	9.85	9.51	9.70	9.71	9.99	10.29	10.40	10.18	9.83	9.36	—
20	9.38	8.94	8.83	8.94	9.25	9.40	10.09	10.55	10.64	10.70	10.12	9.51	—
21	10.02	9.37	8.93	8.70	8.83	8.95	9.48	9.66	10.15	10.10	9.43	8.76	—
22	8.82	8.28	8.14	8.06	8.40	8.61	8.89	9.65	9.85	9.74	9.29	8.48	—
23	8.54	8.09	8.09	8.14	8.30	8.85	9.45	10.03	10.07	9.80	9.51	9.19	—
24	9.11	8.48	7.89	8.06	8.24	8.30	8.69	9.30	9.78	9.86	9.67	9.32	—
25	9.11	8.70	8.72	8.27	7.91	8.04	8.80	9.26	9.71	9.72	9.43	8.73	—
26	9.26	8.94	9.05	8.67	8.92	9.49	9.94	10.47	10.91	10.95	10.61	9.57	—
27	9.54	8.64	8.36	8.19	8.30	8.91	9.40	9.94	10.20	10.01	9.59	8.97	—
28	9.04	8.85	8.63	8.26	8.29	8.51	8.73	9.20	9.79	9.83	9.58	8.97	—
29	9.87	9.69	9.20	9.05	9.41	9.61	9.90	10.55	10.64	10.68	10.07	9.29	—
30	9.08	8.35	8.26	7.95	9.67	9.57	10.54	11.10	11.24	11.17	10.45	9.96	—
31	8.58	7.85	7.77	7.90	8.27	8.44	9.04	9.27	9.35	9.44	8.78	7.93	—
Hourly Means.	9.57	9.11	8.90	8.84	9.07	9.34	9.79	10.26	10.51	10.41	10.07	9.46	—

MARCH.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.08	7.52	7.31	7.02	6.92	7.47	8.16	8.60	9.05	9.85	9.84	9.40	8.62
2	8.11	7.41	6.95	6.85	7.44	7.96	8.72	9.10	9.63	10.55	10.40	9.96	9.01
3	8.13	7.35	6.82	6.95	7.17	7.49	8.86	9.36	9.45	9.93	10.00	9.71	8.99
4	8.52	7.73	7.18	6.65	7.16	7.51	8.54	8.79	9.21	9.59	9.51	9.19	8.89
5	8.68	7.93	7.41	7.07	7.23	7.57	8.38	9.13	9.92	10.35	10.28	10.00	9.02
6	9.24	8.57	7.94	7.69	7.92	8.96	9.60	10.23	10.60	11.00	11.31	11.08	9.66
7	8.96	8.22	8.29	8.37	8.34	8.46	9.19	9.84	9.97	10.22	10.12	9.82	9.67
8	8.53	8.10	7.57	7.35	7.71	8.01	8.69	9.25	9.86	9.66	9.31	8.96	9.00
9	8.23	7.35	7.28	7.56	7.79	8.94	9.24	9.31	9.86	10.25	9.99	9.81	8.87
10	9.09	8.37	7.77	7.61	7.87	8.59	9.35	9.79	10.09	10.29	10.56	10.20	9.46
11	9.42	8.60	8.03	7.67	7.58	8.62	9.02	9.84	10.39	10.70	10.64	10.49	9.60
12	9.21	8.59	7.70	7.98	8.50	9.16	9.75	10.21	10.61	11.10	11.43	11.14	9.81
13	9.85	9.05	8.38	8.51	8.53	9.30	9.71	10.50	11.04	11.41	11.48	11.45	10.24
14	10.24	9.24	8.94	8.92	9.33	9.79	10.50	10.93	11.10	11.53	11.45	11.21	10.66
15	9.43	8.52	7.32	7.25	7.48	8.54	8.87	9.31	9.82	10.27	10.18	9.86	9.79
16	8.45	7.83	7.36	7.02	7.44	8.29	8.60	9.32	9.88	10.47	10.58	10.10	9.03
17	9.91	9.22	8.66	8.48	8.48	8.71	9.56	10.10	10.26	10.46	10.95	11.14	10.08
18	8.97	8.32	8.07	8.15	8.63	9.62	10.27	10.56	10.71	10.69	10.73	10.55	9.96
19	8.64	7.96	7.83	7.61	7.81	8.30	8.72	9.31	9.44	9.83	9.91	9.88	9.35
20	8.85	8.33	8.23	7.97	7.96	8.80	9.37	10.12	10.31	10.70	10.89	10.35	9.51
21	8.07	7.47	6.68	6.63	6.68	7.69	8.50	9.08	9.33	9.64	9.38	9.34	8.77
22	7.36	6.98	6.73	6.43	7.30	7.54	8.22	8.58	9.28	9.43	9.60	9.16	8.45
23	8.57	7.54	7.34	7.22	7.62	8.15	8.61	9.09	9.58	9.90	10.05	9.51	8.80
24	8.34	8.01	7.55	7.51	7.58	8.21	8.79	9.18	9.65	10.14	10.10	9.91	8.82
25	8.06	7.66	7.45	7.37	8.05	8.29	9.04	9.86	9.93	10.35	10.31	9.92	8.86
26	8.82	8.37	7.96	7.61	8.02	8.66	9.20	9.88	10.38	10.88	10.74	10.50	9.49
27	8.13	7.37	6.68	6.42	6.67	8.13	8.51	9.09	9.48	9.95	10.06	9.93	8.77
28	8.42	7.62	7.17	7.55	7.92	8.37	9.30	9.61	10.15	10.59	11.11	10.49	9.00
29	8.57	7.83	7.83	8.28	8.28	7.91	8.46	8.84	9.92	9.99	9.90	9.56	9.31
30	9.01	8.11	7.57	7.23	7.43	7.63	8.04	8.60	8.79	8.98	9.05	8.96	9.03
31	7.38	6.70	6.38	6.48	6.71	7.28	8.03	8.55	9.09	9.24	8.98	9.00	8.19
Mean Batavia Time.	8.69	7.99	7.56	7.46	7.73	8.32	8.96	9.48	9.90	10.26	10.29	10.02	9.25

STANDARD THERMOMETER.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH.	1	74.8	74.4	74.0	73.2	73.0	72.2	72.5	74.9	77.0	81.2	83.7	85.1	—
	2	77.0	76.4	75.6	75.2	74.7	74.3	75.0	77.4	78.2	79.6	81.2	83.2	—
	3	75.3	74.8	74.2	73.9	73.4	73.0	73.5	76.4	78.6	81.6	84.3	84.5	—
	4	75.1	75.0	75.1	75.2	75.3	75.1	75.7	77.4	80.1	82.8	83.7	84.8	—
	5	76.0	75.5	75.2	75.0	74.7	74.6	75.4	77.0	79.1	79.9	82.0	82.0	—
	6	75.5	75.1	74.8	75.0	74.3	74.1	74.2	77.0	78.5	81.1	83.5	83.6	—
	7	75.3	75.1	74.4	74.1	73.9	73.8	74.2	76.9	79.2	82.0	83.4	85.0	—
	8	74.1	73.8	73.3	73.2	73.2	72.7	72.5	74.1	77.4	80.8	83.4	85.2	—
	9	74.2	73.9	73.4	73.0	72.8	72.3	73.0	76.2	79.6	82.5	84.6	85.4	—
	10	73.0	73.0	73.0	72.9	72.5	72.2	72.9	75.5	79.3	81.0	82.1	82.8	—
	11	74.6	74.2	73.8	73.4	73.0	73.0	73.7	77.1	80.7	82.8	84.0	85.9	—
	12	75.9	75.9	75.7	75.6	75.4	75.3	76.0	77.5	80.0	83.0	84.4	85.2	—
	13	76.7	76.3	76.0	75.8	75.3	75.0	75.2	77.2	79.4	82.2	83.8	84.7	—
	14	76.8	76.7	76.3	75.6	75.3	75.0	75.8	76.9	78.9	81.8	82.0	84.8	—
	15	75.4	75.0	74.5	74.0	73.5	72.9	73.8	75.2	79.0	82.5	85.2	87.2	—
	16	76.7	75.5	75.0	74.0	73.6	73.4	73.7	77.1	80.5	82.7	84.2	85.4	—
	17	77.1	76.8	76.4	75.6	74.7	74.4	74.6	76.0	78.2	79.8	82.8	83.1	—
	18	76.0	75.3	74.8	74.2	74.0	73.6	74.2	77.8	81.8	83.4	84.2	86.8	—
	19	75.0	74.9	74.1	73.9	73.4	73.0	74.0	78.4	81.8	84.0	85.6	87.2	—
	20	77.1	76.5	76.1	75.8	75.5	75.0	75.7	79.0	81.7	83.7	85.4	86.2	—
	21	76.4	76.0	75.8	75.2	74.7	74.4	74.7	77.0	82.5	81.7	84.7	85.1	—
	22	76.5	76.0	75.4	75.2	74.7	74.2	75.0	76.6	80.0	82.8	83.0	86.0	—
	23	76.2	76.2	76.4	76.2	76.3	76.1	76.3	78.3	80.0	81.6	80.0	81.0	—
	24	76.0	75.8	75.1	74.7	74.1	73.9	74.5	77.5	80.4	83.0	82.2	80.1	—
	25	75.0	75.0	74.5	74.1	73.6	73.2	73.8	77.1	80.0	82.2	83.4	84.5	—
	26	74.5	74.5	74.1	73.9	73.7	73.4	73.5	75.0	78.7	81.1	81.8	84.2	
	27	77.0	76.6	76.1	75.9	75.9	75.7	76.2	78.4	81.0	83.2	84.0	86.0	—
	28	77.4	77.0	76.3	76.0	75.8	75.2	75.6	77.6	81.4	84.0	85.4	86.5	—
	29	76.2	75.8	75.7	75.5	75.1	74.8	75.0	76.4	79.0	81.6	84.0	84.8	
	30	75.7	75.7	74.8	74.6	74.6	73.0	72.6	73.0	73.9	76.2	78.5	78.9	—
	31	75.0	74.8	74.0	73.6	73.2	73.0	73.5	76.3	79.5	82.2	83.5	85.6	—
Hourly Means.		75.73	75.40	74.96	74.63	74 30	73.93	74.40	76.72	79.53	81.87	83.35	84.54	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MARCH.	1	86.0	85.2	85.3	85.2	84.1	82.7	81.5	79.8	79.0	78.6	77.9	77.5	79.12
	2	83.6	84.2	83.7	83.5	80.0	76.7	77.0	76.1	75.9	76.1	76.1	75.6	78.18
	3	84.3	86.5	85.0	84.2	82.0	79.5	78.3	76.0	75.7	75.5	75.3	75.1	78.37
	4	85.5	85.2	83.8	83.6	82.8	81.9	79.5	77.4	76.0	76.0	76.2	76.2	79.14
	5	80.2	80.8	81.2	81 0	80.8	80.0	78.8	77.8	77.0	76.6	76.4	75.7	78.03
	6	83.4	84.2	83.7	82.8	82.2	81.7	80.8	78.3	77.1	76.2	76.0	75.6	78.70
	7	83.9	85.1	82.1	73.5	73.6	73.8	74.4	74.8	74.8	74.8	74.8	74.5	76.98
	8	84.6	85.2	83.8	82.8	79.5	78.1	76.8	76.2	75.9	75.6	75.1	74.9	77.59
	9	85.2	85.4	84.1	83.3	81.7	75.6	75.0	75.0	74.4	74.0	73.2	73.0	77.53
	10	82.3	83.0	83.5	83.0	82.2	81.0	79.8	77.6	76.7	76.1	75.8	75.3	77.77
	11	78.1	80.5	82.1	83.1	82.9	81.6	80.4	79.4	78.0	76.8	76.3	75.8	78.38
	12	83.2	84.3	84.5	83.2	82.5	81.6	78.5	77.8	77.2	77.4	77.2	77.2	79.35
	13	83.0	84.0	84.4	83.6	83.2	82.2	80.8	79.5	78.1	77.5	77.1	76.6	79.48
	14	83.5	83.4	82.4	82.0	80.6	78.1	77.0	76.4	76.6	76.0	76.0	76.0	78.50
	15	87.8	88.6	88.8	89.0	88.2	83.0	82.2	80.6	79.7	78.6	77.3	77.0	80.38
	16	87.0	86.5	85.6	85.0	84.7	83.6	82.3	81.3	79.8	79.0	78.6	78.2	80.14
	17	82.1	82.2	83.6	84.0	84.0	82.7	80.9	79 4	78.4	77.3	76.6	76.1	79.03
	18	87.6	86.8	87.0	85.0	84.0	78.9	77.7	76.8	76.5	76.1	75.5	75 5	79.31
	19	86.5	87.2	86.6	84.0	83.0	82.7	82.0	80.4	79.2	78.7	78.0	77.6	80.05
	20	86.4	85.9	83.9	83.1	82.9	82.0	79.6	78.0	77.6	77.0	76.6	76.3	79.88
	21	86.0	86.4	85.7	84.7	84.2	83.0	80.8	79.3	78.5	77.8	77.5	77.1	79.97
	22	85.0	84.6	83.1	83.0	82.6	79.7	78.3	77.7	77.3	76.7	76.0	75.9	78.97
	23	80.6	80.0	81.0	81.2	80.2	79.2	78.1	77.4	76.9	76.6	76.4	76.4	78.28
	24	78.8	80.7	80.5	80.7	79.3	77.7	77.2	76.8	76.5	76.2	76.0	75.5	77.63
	25	85.5	84.5	82.5	80.0	76.2	76.2	75.9	75.5	75.4	74.9	74.8	74.6	77.60
	26	85.0	85.1	85.3	83.9	82.9	81.8	80.8	79.2	78.5	78.0	77.8	77.8	78.94
	27	86.7	87.1	86.7	86.0	84.6	81.5	78.4	78.0	78.3	78.2	78.0	77.9	80.31
	28	87.2	87.2	86.2	85.0	84.2	83.0	80.1	78.5	77.5	76.9	76.2	76.2	80.27
	29	86.4	86.0	81.4	80.5	79.3	77.0	77.4	77.0	76.8	76.4	76.2	76.1	78.52
	30	80 0	80.8	82.0	82.4	81.4	80.0	78.4	77.5	76.6	76.1	76.1	75.7	77.02
	31	85.2	85.4	85.1	83.9	83.1	82.0	81.5	80.3	80.0	78.8	78.0	77.2	79.36
Hourly Means.		84.21	84.58	84.02	83.10	82.03	80.27	79.04	77 93	77.29	76.79	76.42	76.13	78.80

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH.	1	939	947	930	937	929	946	946	880	859	777	714	685	—
	2	949	948	948	947	956	956	947	884	853	824	769	760	—
	3	948	947	965	956	965	955	956	882	831	749	695	709	—
	4	922	939	930	939	931	947	957	907	841	745	713	716	—
	5	940	948	956	956	956	939	966	891	832	810	778	778	—
	6	948	957	956	947	965	965	965	900	854	784	706	706	—
	7	947	947	956	956	956	947	956	900	832	771	739	703	—
	8	965	965	973	973	973	964	955	930	828	761	678	653	—
	9	939	947	956	955	955	964	937	882	743	682	663	653	—
	10	955	955	946	955	973	964	955	905	824	790	750	788	—
	11	947	956	947	956	964	964	921	828	768	732	721	649	—
	12	923	923	931	948	957	948	948	892	803	732	695	691	—
	13	940	940	940	940	939	947	939	900	809	772	727	696	—
	14	907	924	932	957	957	956	948	907	869	785	785	670	—
	15	914	914	921	938	946	955	956	914	801	738	698	617	—
	16	874	898	913	912	929	929	930	844	732	731	695	660	—
	17	891	874	932	940	939	947	956	906	861	825	773	718	—
	18	923	947	939	947	947	938	921	868	764	742	715	614	—
	19	914	913	930	921	929	929	904	814	764	694	653	622	—
	20	932	940	948	957	957	947	931	863	792	734	672	643	—
	21	899	923	923	939	947	947	939	835	669	736	638	685	—
	22	915	923	939	939	939	938	914	874	825	759	752	668	—
	23	923	931	932	931	932	940	940	901	841	784	903	805	—
	24	966	957	956	956	947	947	939	876	819	746	808	841	—
	25	947	947	956	956	947	956	938	867	849	779	740	702	—
	26	956	965	965	956	956	947	947	939	854	814	808	669	—
	27	900	916	923	940	931	940	932	853	776	753	721	668	—
	28	949	949	940	940	931	947	957	900	777	715	712	690	—
	29	940	948	957	966	966	956	956	932	863	822	762	737	—
	30	923	905	930	930	939	937	902	894	903	874	815	808	—
	31	947	939	947	956	956	955	956	916	810	751	685	662	—
Hourly Means.		932	937	942	947	949	949	942	887	814	764	732	699	—

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MARCH.	1	707	732	712	711	728	765	806	879	893	908	925	932	841
	2	748	735	769	761	766	891	900	906	890	948	948	957	873
	3	736	702	745	729	758	824	814	833	856	872	889	898	842
	4	711	670	692	740	759	807	824	892	906	923	940	940	845
	5	796	783	783	776	805	841	878	917	932	940	940	957	879
	6	776	736	721	745	764	770	789	885	907	923	931	940	856
	7	748	745	807	903	912	938	939	947	947	947	947	965	890
	8	716	691	680	760	742	798	866	874	899	915	930	930	851
	9	678	672	728	739	770	898	922	922	930	912	946	946	847
	10	793	760	740	753	758	775	848	875	899	923	931	939	865
	11	836	872	822	760	739	799	826	863	868	882	906	931	852
	12	733	736	717	776	766	814	901	908	924	925	932	932	852
	13	775	749	728	761	753	779	820	879	908	900	900	907	848
	14	761	719	744	771	797	836	875	890	882	899	906	906	858
	15	614	586	605	594	614	794	714	774	794	830	875	874	791
	16	652	631	672	658	696	740	793	828	840	869	893	893	801
	17	722	737	706	687	680	696	775	863	877	900	916	923	835
	18	617	639	671	637	706	831	867	874	882	865	905	905	818
	19	664	672	664	741	787	801	821	872	909	909	933	933	821
	20	638	681	769	718	752	807	794	836	852	883	906	923	828
	21	688	631	667	696	694	752	826	863	869	860	883	900	809
	22	710	702	732	724	780	817	861	867	875	891	906	923	841
	23	827	879	843	873	880	878	901	925	941	948	957	957	899
	24	909	835	835	835	863	884	907	916	932	923	923	940	894
	25	712	695	758	817	940	940	948	957	948	947	947	956	881
	26	711	685	699	741	774	814	865	886	885	892	876	860	853
	27	697	679	658	643	664	785	908	901	893	908	933	941	828
	28	611	611	650	697	721	767	834	869	900	916	940	948	828
	29	702	728	733	788	839	924	932	932	948	948	948	923	881
	30	803	805	736	730	756	803	853	892	906	923	931	940	868
	31	699	680	672	721	746	771	791	849	871	918	941	949	837
Hourly Means.		725	715	724	741	765	817	852	883	896	908	922	928	849

DIRECTION OF THE WIND.

MARCH. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	W	W	W	W	C	C	W	W	W	NW	NW	WNW
2	C	C	NNW	C	C	C	C	NNE	N	NW	NNW	N
3	W	W	W	C	C	C	C	W	W	W	WSW	W
4	C	C	C	SSE	C	C	SSE	SSE	SSE	ENE	NE	NE
5	SW	SW	SW	SW	SW	SW	SW	SW	NW	NW	WNW	NNW
6	C	C	C	C	NNW	C	NNW	NNW	NNW	NNW	NW	N
7	C	C	WNW	C	C	C	C	WNW	NW	NW	N	NW
8	C	C	N	N	C	C	N	N	N	N	W	NW
9	C	WSW	WSW	C	WSW	WSW	WSW	WSW	WSW	NE	E	E
10	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	ESE	ENE	ENE
11	C	C	C	C	C	C	NNE	SE	SE	ESE	E	E
12	S	S	S	S	C	S	S	S	S	E	NE	ENE
13	C	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	ESE	NE	NE
14	NE	NE	C	NE	C	NE	C	C	NE	N	N	NNE
15	WSW	W	W	W	W	W	W	W	WSW	WSW	SW	W
16	W	W	C	C	C	C	W	W	SSW	SSW	SE	ENE
17	S	S	S	S	S	S	S	SSW	SSW	S	E	E
18	C	ESE	ESE	ESE	ESE	ESE	ESE	SE	SSE	ESE	ESE	ESE
19	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SE	E	ESE	E	E
20	C	NE	NE	NE	NE	NE	NE	ENE	ESE	E	NE	N
21	C	C	C	C	C	C	SW	SW	WSW	WNW	N	N
22	C	SW	SW	SW	SW	SW	SW	SW	SW	NNW	N	NNE
23	SW	SW	S	ESE	ESE	ESE	ESE	SE	SE	NE	NE	NNE
24	C	C	SW	C	SW	SW	SW	SW	SSW	E	SE	E
25	C	SSW	C	SSW	SSW	C	SSW	SSW	ESE	ESE	E	ENE
26	C	C	SE	SE	SE	SE	SE	SE	SW	NW	N	NNE
27	ESE	ESE	C	ESE	ESE	C	C	C	ENE	ENE	NW	WNW
28	W	W	W	W	W	W	W	W	SSW	SSW	WSW	NE
29	C	WSW	WSW	C	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW
30	NW	NW	NW	NW	NW	NW	NW	W	WNW	SW	SW	WSW
31	C	C	N	N	N	C	C	N	NE	WSW	N	NNW

MARCH. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NNW	NNW	NNW	NW	N	NNW	NNW	NNW	C	C	NNW	C
2	NW	NW	N	N	W	SSW	W	C	C	W	W	W
3	ENE	N	N	NNW	WNW	W	W	SSE	SSE	SSE	SSE	SSE
4	NE	NNE	NNE	NNE	N	N	SW	SW	SW	SW	SW	SW
5	N	N	N	NNW	NNW	NNW	NNW	NNW	C	C	C	C
6	N	N	N	N	NNW	NNW	NNW	WNW	C	C	WNW	WNW
7	NE	N	N	N	N	N	N	N	N	N	N	C
8	NE	N	N	NNW	WSW	WSW	WSW	WSW	WSW	C	WSW	WSW
9	NNE	N	N	NNW	WNW	S	SSE	SSE	SSE	SSE	C	C
10	E	NE	ENE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	C
11	N	N	NNE	NE	NNE	NE	NE	NE	S	S	S	S
12	NNE	NNE	NNE	N	NNE	NE	SSW	SSW	SSW	C	SSW	SSW
13	N	NNE	NNE	N	N	NE	C	NE	NE	NE	C	NE
14	N	NNE	N	N	WNW	WSW	WSW	WSW	WSW	WSW	C	C
15	NW	W	WNW	WNW	W	SSW	W	W	W	W	W	W
16	N	NE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	SSE
17	E	ESE	ESE	E	E	ESE	ESE	C	C	ESE	ESE	C
18	E	ENE	NE	NE	NE	SW	SW	SSW	SSW	SSW	SSW	SSW
19	NE	NNE	NNE	NNE	NNE	NE	NE	NE	C	NE	NE	C
20	NNE	NNE	NNE	NNE	NNE	N	SW	SW	SW	SW	SW	SW
21	NNE	N	NNE	N	N	N	SW	SW	SW	SW	SW	C
22	N	NNE	N	N	NNW	SW	SW	SW	SW	C	SW	SW
23	N	NNE	N	N	WSW	SW	C	C	C	C	C	C
24	E	ENE	N	N	SW	SSW	SSW	C	C	C	C	C
25	NE	E	ENE	WNW	SE	SE	SE	SE	SE	SE	SE	SE
26	NNE	N	NE	NE	NE	NE	ESE	ESE	ESE	ESE	ESE	ESE
27	NNE	NNE	NNE	NE	N	SW	W	W	W	W	W	W
28	NNE	NE	N	N	N	WSW	WSW	WSW	WSW	WSW	WSW	WSW
29	NW	NW	NW	NW	NW	NW	NW	C	NW	NW	C	NW
30	W	SW	SW	NE	NNE	N	C	C	C	C	C	C
31	N	NNE	N	N	N	N	N	N	C	N	N	N

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

MARCH.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	3.2	1.6	1.6	1.6	0.0	0.0	0.8	0.8	3.2	6.4	8.9	10.5	—
2	0 0	0.0	0.8	0.0	0.0	0.0	0.0	4.0	7.2	8.0	4.8	8 0	—
3	1.6	0.8	0.8	0.0	0.0	0.0	0 0	2.4	2.4	4.8	4.8	6.4	—
4	0.0	0.0	0.0	0.8	0.0	0.0	1.6	0.8	4.8	8.0	9.7	11.3	—
5	3.2	3.2	0.8	0.8	0.8	0.8	1.6	3.2	3.2	4.0	4.0	9.7	—
6	0.0	0.0	0.0	0 0	0.8	0.0	0.8	1.6	2.4	4.8	8.0	11.3	—
7	0.0	0.0	1.6	0.0	0.0	0.0	0.0	3.2	6.4	6.4	4.8	7.2	—
8	0.0	0 0	1.6	0.8	0.0	0.0	1.6	3.2	4.8	4.8	4.0	5.6	—
9	0.0	0.8	1.6	0.0	1.6	1.6	1.6	1.6	4.8	8.0	11.3	11 3	—
10	0.8	1.6	0.8	1.6	1.6	0.8	0.8	1.6	4.0	8.0	10.5	15.3	—
11	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.6	11.3	12.9	11.3	12 9	—
12	2.4	1.6	0.8	0.8	0.0	0.8	0.8	3.2	5.6	8.0	9.7	11.3	—
13	0.0	0.8	0.8	0.8	1.6	1.6	0.8	3.2	3.2	6.4	8.9	15 3	—
14	0.8	0.8	0.0	0.8	0.0	0.8	0.0	0.0	1.6	2.4	6.4	12.1	—
15	1.6	1.6	0.8	3.2	0.8	0.8	1.6	1.6	5.6	7.2	6.4	6.4	—
16	0.8	0.8	0.0	0.0	0.0	0.0	0.8	3.2	4.0	4.0	5.6	4.8	—
17	5.6	1.6	2.4	1.6	1.6	1.6	2.4	4.0	3.2	4.8	10.5	14.5	—
18	0.0	0.8	0.8	2.4	3.2	1.6	3.2	4.8	6.4	10.5	8.9	12.9	—
19	1.6	2.4	3 2	1.6	1.6	1.6	4.0	5.6	9.7	11.3	9.7	8.0	—
20	0.0	0.8	0.8	0.8	0.8	1.6	1.6	3.2	6.4	4.8	9.7	10.5	—
21	0.0	0 0	0.0	0.0	0.0	0.0	1.6	0.8	3.2	3.2	8.9	9.7	—
22	0.0	0.8	1.6	1.6	2.4	1.6	3.2	1.6	4.0	4.8	7.2	12.9	—
23	1.6	3.2	7.2	4.8	4.0	2.4	2.4	1.6	2.4	4.8	2.4	5.6	—
24	0.0	0.0	0.8	0.0	1.6	0.8	1.6	4.8	4.8	7.2	8.0	8 9	—
25	0.0	0.8	0.0	1.6	1.6	0.0	3.2	1.6	4.8	9.7	8.9	9.7	—
26	0.0	0.0	0.8	1.6	0.8	0.8	1.6	0.8	3.2	4.8	8.0	8.9	—
27	0.8	0.8	0.0	0.8	0.8	0.0	0.0	0.0	3.2	4.0	4.8	3.2	—
28	1.6	1.6	1.6	0.8	0.8	0.8	1.6	2.4	4.8	4.0	6.4	11.3	—
29	0 0	0.8	0.8	0.0	1.6	0.8	1.6	2.4	3.2	4.8	6.4	7.2	—
30	0.8	3.2	0.8	0.8	1.6	3.2	3.2	4.8	3.2	6.4	4.8	3.2	—
31	0.0	0.0	0.8	1.6	0.8	0.0	0.0	2.4	3.2	4.0	4.0	6.4	—
Hourly Means.	0.85	0.98	1.08	1.01	0.98	0.77	1.50	2.58	4.52	6.23	7.35	9.43	—

MARCH.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	11.3	12.1	10.5	8.9	8.0	3.2	0.8	0.8	0.0	0 0	0.8	0.0	3.96
2	9.7	8.9	8.0	8.0	6.4	3.2	2.4	0.0	0.0	1.6	0.8	0.8	3.44
3	8.0	12.9	12.1	10.5	6.4	4.8	8.0	4.8	1.6	0.8	1.6	0.8	4.01
4	10.5	12.1	12.1	9.7	8.0	3.2	8.0	3.2	3.2	1.6	1.6	1.6	4.66
5	10.5	8.0	7.2	8.0	6 4	1.6	0.8	0.8	0 0	0.0	0.0	0.0	3.28
6	10.5	14.5	13.7	12.9	10.5	6.4	2.4	1.6	0.0	0.0	0.8	1.6	4.36
7	12.1	13.7	14.5	9.7	3.2	1.6	0 8	0.8	1.6	1.6	0.8	0.0	3.75
8	14.5	13.7	11.3	11.3	5.6	2.4	1.6	0.8	0.8	0.0	0.8	0.8	3.75
9	12.1	12.9	12.9	7.2	7.2	6.4	3.2	3.2	3.2	1.6	0 0	0.0	4.75
10	12.9	12.9	13.7	12.9	9.7	3.2	0.8	3.2	1.6	1 6	0.8	0.0	5.03
11	5.6	4.8	8.9	11.3	10.5	7.2	2.4	4.8	6.4	4.8	4.0	3.2	5.43
12	10.5	12.9	12.9	9.7	4.8	4.8	4.0	3.2	1.6	0.0	0.8	0 8	4.63
13	10.5	12.1	12.9	8.0	5.6	1.6	0.0	4.0	3.2	2.4	0,0	0.8	4.35
14	12.9	11.3	9.7	6.4	7.2	4.0	4.8	4.0	2.4	1.6	0.0	0.0	3.75
15	8.0	9.7	10.5	9.7	11.3	4.8	4.8	3.2	0.8	1.6	1.6	3.2	4.45
16	11.3	12.9	12.9	14.5	11.3	9.7	3.2	3.2	1.6	2.4	4.8	8.0	4.99
17	11.3	10.5	13.7	11.3	9.7	6.4	3.2	0.0	0.0	1.6	0.8	0.0	5.10
18	15.3	15.3	16.1	12.9	8.0	8.0	7.2	3.2	1.6	1.6	1.6	0.8	6.13
19	10.5	13.7	12.9	9.7	5.6	4.8	2.4	0.8	0.0	1.6	1.6	0.0	5.16
20	12.9	15.3	16.1	13.7	8.0	4.0	6.4	1.6	0.8	1.6	1.6	1.6	5.19
21	11.3	12.1	12.9	9.7	4.8	4.0	4.8	4.8	2.4	1.6	0.8	0.0	4.03
22	12.9	14.5	12.1	9.7	2.4	6.4	5.6	2.4	1.6	0.0	0.8	1.6	4.65
23	6.4	1.6	3.2	4.0	6.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.77
24	6.4	5.6	3.2	3.2	8.9	3.2	0.8	0.0	0.0	0.0	0.0	0.0	2.91
25	15.3	12.9	6.4	8.0	5.6	1.6	3.2	2.4	3.2	1.6	0.8	0.8	4.32
26	10.5	11.3	12.1	8.0	4.0	1.6	4.0	2.4	1.6	1.6	1.6	0 8	3.78
27	7.2	11.3	12.9	9.7	6.4	8.0	2.4	1.6	0.8	1.6	1.6	1.6	3.48
28	11.3	12.9	10.5	10.5	8.0	4 8	4.8	4.8	2.4	3.2	3.2	1.6	4.82
29	9.7	11 3	11.3	3.2	1.6	1.6	0.8	0.0	0.8	0.8	0.0	1.6	3.01
30	4.0	3.2	6.4	11.3	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.94
31	11.3	11.3	11.3	11.3	8.0	4.8	1.6	0.8	0.0	1.6	0.8	0.8	3.62
Hourly Means.	10.55	11.23	11.13	9.51	6.96	4.29	3.07	2.14	1.39	1.29	1.11	1.06	4.21

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH.	1	7	6	6	6	6	7	2	0	6	6	6	6	—
	2	3	3	4	3	2	4	3	8	7	7	7	7	—
	3	3	3	2	3	2	3	2	1	2	2	3	7	—
	4	9	9	9	9	9	8	4	3	3	6	8	8	—
	5	10	10	10	10	10	10	9	9	9	8	8	8	—
	6	1	1	2	3	0	2	2	1	6	7	7	10	—
	7	3	2	2	3	3	4	3	2	2	1	7	6	—
	8	3	2	3	3	4	4	4	5	5	3	4	5	—
	9	4	2	3	3	2	4	2	1	1	2	3	5	—
	10	6	5	6	6	6	7	2	3	3	3	6	8	—
	11	0	1	0	0	1	2	4	2	1	1	2	6	—
	12	9	9	9	8	9	9	8	7	6	6	7	9	—
	13	4	3	5	7	4	6	5	9	9	8	7	8	—
	14	7	9	5	6	3	9	10	10	10	9	9	7	—
	15	4	6	4	5	4	6	8	7	5	2	2	3	—
	16	1	1	1	1	2	2	2	1	1	6	8	6	—
	17	10	10	10	10	9	9	9	8	9	9	9	9	—
	18	3	2	3	2	3	3	8	4	3	6	4	3	—
	19	3	1	2	2	1	2	1	0	1	1	3	3	—
	20	5	3	2	4	3	5	3	3	3	5	4	4	—
	21	9	6	2	2	2	3	2	1	1	8	4	6	—
	22	5	3	2	2	2	3	2	9	7	7	8	5	—
	23	9	10	9	9	10	10	10	10	9	9	9	10	—
	24	10	10	7	8	3	4	4	2	2	8	10	10	—
	25	10	10	10	6	9	7	1	1	9	7	7	6	—
	26	8	1	4	1	10	10	8	8	7	8	8	6	—
	27	10	9	10	10	10	8	4	1	1	3	4	5	—
	28	10	10	10	10	6	8	9	7	6	4	3	4	—
	29	10	10	7	9	9	9	10	9	9	9	9	9	—
	30	10	10	10	10	10	10	10	10	10	10	10	10	—
	31	6	5	4	1	1	1	1	2	4	10	6	4	—
Hourly Means.		6.2	5.5	5.3	5.2	5.0	5.8	4.9	4.6	5.1	5.8	6.2	6.5	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MARCH.	1	6	6	6	5	6	6	6	4	2	2	3	1	4.9
	2	7	3	2	1	10	10	10	9	9	7	2	3	5.5
	3	6	5	1	2	9	9	10	10	10	10	10	10	5.2
	4	9	8	7	6	7	9	9	9	10	10	10	9	7.8
	5	9	9	9	8	8	6	4	2	2	3	2	1	7.3
	6	7	6	6	7	6	6	6	10	7	4	4	5	4.8
	7	10	6	10	10	10	6	10	10	10	7	6	6	5.8
	8	4	3	3	3	5	5	8	9	10	6	5	5	4.6
	9	6	7	8	9	9	10	10	9	6	3	1	0	4.6
	10	10	9	7	5	5	5	6	4	2	2	2	1	5.0
	11	10	6	7	5	5	6	7	8	10	8	8	9	4.5
	12	6	4	6	7	7	9	10	9	7	8	9	8	7.8
	13	9	4	4	4	4	3	3	4	5	7	7	8	5.7
	14	8	9	8	9	10	10	9	10	9	10	7	2	8.1
	15	7	8	4	6	8	10	9	9	7	4	3	3	5.6
	16	7	7	7	8	7	7	8	9	9	10	10	10	5.5
	17	9	7	6	5	4	2	7	4	3	2	2	1	6.8
	18	5	5	4	3	4	10	10	10	10	10	6	7	5.3
	19	6	3	7	7	6	8	7	5	3	2	1	1	3.2
	20	5	7	7	5	6	9	9	10	9	6	7	8	5.5
	21	3	1	1	1	2	4	9	10	10	10	9	7	4.7
	22	3	6	7	8	9	6	10	9	7	7	8	8	6.0
	23	10	10	10	10	10	10	9	9	9	10	10	10	9.6
	24	10	9	10	10	10	10	10	10	10	9	3	8	7.8
	25	9	10	10	10	10	10	10	10	9	6	9	10	8.2
	26	2	4	5	7	8	8	10	10	10	10	10	10	7.2
	27	7	5	4	3	7	10	10	9	10	10	10	10	7.1
	28	4	3	3	3	3	10	10	10	10	10	10	10	7.2
	29	9	9	10	10	10	10	10	10	10	10	10	10	9.5
	30	10	10	10	6	5	4	3	2	2	6	4	6	7.8
	31	4	2	3	4	4	7	9	9	9	9	8	7	5.0
Hourly Means.		7.0	6.2	6.2	6.0	6.9	7.6	8.3	8.1	7.6	7.0	6.3	6.3	6.23

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH.	1	18.4	17.0	17.9	13.3	19.8	23.0	13.8	8.3	11.5	3.7	2.3	1.8	—
	2	17.5	19.3	20.7	24.8	19.3	32.1	23.4	11.5	6.4	6.0	4.6	4.1	—
	3	12.4	17.5	13.8	20.7	18.4	18.9	25.2	16.1	10.6	6.9	5.1	3.7	—
	4	16.6	15.2	18.4	12.4	12.0	12.9	18.4	13.8	7.8	4.1	14.3	2.8	—
	5	11.5	16.1	21.6	20.7	11.5	12.4	15.2	8.7	6.4	4.6	3.2	4.1	—
	6	15.6	23.4	18.4	21.6	19.8	19.3	21.6	8.3	5.5	4.6	3.7	2.3	—
	7	10.1	12.0	12.0	11.0	8.3	9.7	11.5	10.1	6.4	5.5	4.1	4.1	—
	8	25.2	25.7	32.1	21.6	17.5	15.6	23.0	14.3	8.7	4.6	4.6	3.2	—
	9	15.2	14.3	15.6	18.4	27.5	20.7	20.7	17.0	9.2	5.1	5.5	5.1	—
	10	19.3	14.3	14.3	13.8	12.4	13.8	21.6	13.8	6.9	5.1	9.2	17.0	—
	11	17.9	24.8	18.9	20.7	16.1	18.4	20.7	10.6	5.1	5.1	4.1	— 6.9	—
	12	4.6	4.6	2.3	7.8	7.4	10.6	13.8	10.1	6.4	3.7	4.1	3.7	—
	13	12.9	12.0	13.3	12.0	8.7	12.0	12.0	7.4	5.5	2.8	6.4	5.1	—
	14	6.0	7.4	7.8	10.1	8.7	12.0	11.5	8.3	9.7	6.0	2.8	2.3	—
	15	—	—	—	—	—	8.7	17.9	9.7	7.4	2.8	2.3	2.3	—
	16	10.1	9.7	10.1	10.1	14.3	19.8	16.1	18.4	7.4	3.7	3.2	2.3	—
	17	P N	P N	P N	P N	11.5	7.4	12.0	6.0	4.6	3.2	2.8	— 1.4	—
	18	13.3	14.7	12.0	8.3	6.0	6.9	11.0	4.1	3.2	2.3	2.3	2.3	—
	19	4.1	10.1	10.6	9.2	11.0	12.4	18.9	7.4	4.1	2.8	3.2	2.8	—
	20	12.4	14.7	17.5	11.0	9.7	7.4	10.1	6.9	4.1	2.3	1.4	1.8	—
	21	8.3	9.7	9.2	9.7	10.1	12.9	16.1	8.3	5.1	0.9	0.9	0.5	—
	22	11.5	12.9	10.6	7.8	6.4	5.5	7.8	6.0	5.1	2.8	1.4	0.9	—
	23	6.9	6.9	4.1	4.6	9.2	4.1	9.2	6.9	6.4	4.1	P N	6.9	—
	24	13.8	8.7	10.6	10.1	8.3	5.1	7.4	5.5	4.1	4.1	3.2	N	—
	25	8.7	15.2	15.6	15.2	13.8	11.0	13.8	6.4	4.1	2.8	1.8	2.8	—
	26	14.7	16.6	12.4	12.0	11.0	9.7	9.2	11.0	7.4	3.7	2.8	3.7	—
	27	5.1	6.0	5.5	7.4	4.6	8.7	11.5	8.3	6.9	2.8	2.8	2.3	—
	28	3.7	6.0	5.1	4.6	6.4	8.3	10.1	8.3	3.7	2.3	0.5	1.4	—
	29	7.4	9.7	9.2	9.2	7.8	8.3	19.8	13.3	6.9	3.7	2.3	2.8	—
	30	6.0	4.1	4.6	7.4	1.8	1.4	4.6	3.7	3.7	4.6	3.7	2.3	—
	31	10.1	11.5	10.1	10.1	11.5	12.0	14.7	9.2	4.6	2.3	1.8	2.3	—
Hourly Means.		11.7	13.1	12.9	12.6	11.7	12.3	14.9	9.6	6.3	3.8	3.7	2.9	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MARCH.	1	0.9	1.4	1.4	4.1	4.1	4.1	9.2	13.8	12.9	12.9	17.5	8.3	10.1
	2	4.1	4.6	3.7	4.1	P N	N	P N	N	— 4.6	— 0.5	6.9	7.4	10.8
	3	3.2	2.8	1.8	4.1	P	12.9	P	23.0	18.4	14.7	14.3	15.2	12.7
	4	1.8	1.4	1.4	1.8	0.9	18.4	P	P	P	1.4	10.6	9.2	9.3
	5	2.3	2.8	4.1	5.1	7.4	5.5	11.5	19.3	15.6	11.5	12.0	15.2	10.3
	6	0.9	0.5	0.5	0.9	1.4	3.7	7.4	—12.0	9.2	9.7	12.0	13.3	8.8
	7	3.7	P N	P N	P N	P N	P N	P N	11.5	16.1	17.9	19.3	18.9	10.7
	8	4.6	4.1	5.5	2.3	27.5	16.1	7.8	17.0	18.4	12.0	7.8	14.3	13.9
	9	4.6	5.5	10.6	23.0	32.1	P N	P N	9.2	12.0	12.4	12.9	17.0	14.3
	10	P N	5.1	4.1	5.1	7.8	12.4	16.1	14.3	14.7	13.8	12.4	14.7	12.3
	11	P N	14.7	4.6	4.6	5.1	0.0	16.1	P N	P N	8.7	7.4	6.0	10.6
	12	N	1.4	9.7	9.7	P N	P N	P N	N	9.2	13.3	15.2	9.7	7.8
	13	3.7	2.8	2.3	2.3	2.3	6.4	8.7	16.1	9.7	8.3	9.2	8.7	7.9
	14	5.5	32.1	3.2	5.5	36.7	N	5.1	3.7	3.2	3.2	3.2	—	8.8
	15	— 3.7	— 2.3	4.1	9.2	P N	P N	P	8.7	8.3	15.6	10.1	11.5	7.0
	16	3.2	4.1	3.2	N	12.9	4.6	8.3	14.7	11.5	5.5	10.1	6.0	9.1
	17	P N	P	2.3	1.8	2.3	4.1	6.0	9.2	9.7	12.4	7.4	10.6	6.2
	18	2.3	1.8	0.9	3.2	14.3	P N	P N	4.1	— 2.8	3.2	4.1	3.2	5.5
	19	1.8	— 6.0	P N	P N	3.2	5.5	7.8	12.0	11.5	13.8	10.1	12.0	7.7
	20	2.3	1.4	2.3	N	2.8	6.0	19.3	4.6	1.4	8.3	9.7	8.3	7.2
	21	0.9	0.5	P N	0.9	— 2.3	22.5	16.1	N	3.2	5.1	6.9	10.6	7.1
	22	1.4	0.5	P N	17.0	—15.2	13.3	7.4	6.0	8.3	8.3	7.8	8.7	6.2
	23	P N	P N	2.8	4.6	1.4	5.1	8.3	13.8	— 3.2	12.0	12.4	7.8	6.4
	24	P N	3.2	0.0	4.1	1.4	6.9	12.4	10.6	13.3	16.1	15.2	11.5	8.0
	25	3.7	P N	13.8	N	— 5.1	0.5	8.7	10.1	12.9	15.6	13.3	13.3	9.0
	26	2.8	2.8	2.3	— 1.4	3.7	6.9	6.4	7.8	7.8	8.7	6.9	5.5	7.3
	27	1.8	2.3	1.4	— 0.9	— 3.2	N	— 4.6	26.2	P N	8.7	5.1	6.4	5.2
	28	1.8	3.2	1.4	2.3	8.3	P N	P N	N	6.9	P N	2.3	3.7	4.5
	29	2.3	3.7	6.9	P N	P N	P N	P N	1.4	5.5	9.7	7.4	7.4	7.2
	30	2.8	2.8	2.3	2.3	3.7	6.9	13.3	11.0	5.1	7.8	7.4	4.1	4.9
	31	1.8	2.3	1.8	1.8	1.8	3.2	4.6	8.7	10.6	4.1	5.5	5.5	6.3
Hourly Means.		2.4	3.7	3.6	4.7	6.2	7.9	9.3	10.6	8.7	9.8	9.8	9.8	8.42

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	8.84	8.65	8.31	8.30	8.63	8.69	9.11	9.36	9.35	9.38	8.62	8.02	—
	2	8.95	8.54	8.22	8.14	8.36	8.67	9.02	9.79	9.95	9.86	9.22	8.45	—
	3	8.26	8.01	7.86	7.91	8.01	8.03	8.55	8.94	9.28	8.79	8.61	8.05	—
	4	8.09	7.66	7.51	7.52	7.52	8.04	8.10	8.25	8.27	8.11	7.76	7.20	—
	5	7.55	7.16	6.91	6.56	6.61	7.31	8.16	8.71	8.76	8.84	8.49	7.95	—
	6	8.36	7.68	7.54	7.40	7.52	7.79	8.25	8.82	8.75	9.00	8.77	8.02	—
	7	7.73	7.51	7.04	6.95	7.11	7.58	8.24	8.65	9.12	9.16	8.72	8.05	—
	8	8.63	7.94	8.01	7.84	7.98	8.10	8.34	8.58	8.99	8.84	8.51	7.88	—
	9	7.46	6.98	6.83	6.69	6.55	7.05	7.91	8.34	8.56	8 70	8.28	7.44	—
	10	7.28	6.81	6.39	6.37	6.55	6.81	7.26	7.60	7.95	7.97	7.46	6.88	—
	11	7.55	7.16	6.80	6.73	6.81	7.14	7.61	7.75	8.03	7.86	7.72	7.28	—
	12	7.70	7.28	7.29	7.37	7.34	7.51	8.18	8.79	9.05	9.18	9.00	8.33	—
	13	9.20	8.58	8.04	8.05	8.20	8.31	9.03	9.53	9.93	9.90	9.75	9.51	—
	14	9.65	9.15	8.85	8.88	9.16	9.47	10.24	10.47	10.75	10.74	10.10	9.48	—
	15	10.60	10.61	10.24	9.60	9.36	9.11	9.62	10.12	10.40	10.55	10.09	9.42	—
	16	9.56	9.08	8.79	8.70	8.56	9.14	9.37	9.76	9.84	9.79	9.44	9.18	—
	17	9.50	9.01	8.88	8.79	8.91	9·24	9.59	10.06	10.11	10.11	9.79	8.87	—
	18	9.69	9.58	9.45	9.34	8.96	9.04	9.71	9.84	10.06	10.10	9.80	9.23	—
	19	9.78	9.25	9.26	9.19	9.06	9.52	9.92	10.11	10.30	10.18	9.93	9.01	—
	20	9.09	8.41	8.34	8.41	8.61	9.06	9.67	9.93	9.85	10.09	9.65	8.82	—
	21	9.29	8.76	8.88	8.93	9.19	9.94	10.44	10.73	10.75	10.50	10.06	9.71	
	22	10.30	9.74	9.29	9.25	9.33	9.50	9.92	10.44	10.66	10.73	10.14	9.33	—
	23	9.29	8.84	8.85	8.76	8.78	9.15	9.57	9.73	10.08	9.76	9.35	8.51	—
	24	7.94	7.50	7.50	7.39	7.56	7.87	8.49	8.82	8.95	9.19	9.08	8.50	—
	25	8.94	8.59	8.30	8.05	8.45	8.80	9.15	9.33	9.46	9.33	9.03	8.46	—
	26	9.49	8.84	8.74	8.45	8.65	8.61	8.92	9.46	9.60	9.49	9.16	8.67	—
	27	9.67	8.94	8.60	8.25	8.41	8.51	9.06	9.49	9.71	9.82	9.46	8.75	—
	28	9.18	9.10	8.62	8.37	8.59	8.80	9.12	9.37	9.71	9.66	9.55	9.04	—
	29	9.36	8.88	8.89	8.71	8.32	8.77	9.16	9.54	9.74	9.96	9.82	9.11	—
	30	8.59	8.05	8.01	8.02	8.02	8.40	8.95	9.30	9.60	9.49	8.84	8.51	—
Hourly Means.		8.85	8.41	8.21	8.10	8.17	8.47	8.96	9.32	9.52	9.50	9.14	8.52	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	7.30	6.81	6.01	6.32	6.74	6.99	8.06	8.83	9.03	9.53	9.63	9.49	8.33
	2	7.76	6.97	6.49	6.92	6.93	7.17	7.86	8.03	8.63	8.59	9.03	8.54	8.34
	3	7.26	6.46	5.98	6.34	6.89	7.61	7.81	8.35	8.82	8.87	8.73	8.35	7.99
	4	6.55	6.39	6.01	6.80	7.68	7.24	7.56	8.53	8.54	8.59	8.45	8.16	7.69
	5	7.47	6.82	6.38	6.74	6.58	7.25	7.61	8.44	8.93	8.96	8.74	8.61	7.73
	6	7.00	6.13	5.67	5.42	5.72	6.23	7.27	7.61	8.42	8.56	8.61	8.29	7.62
	7	7.06	6.33	5.87	5.86	6.03	6.52	7.35	8.41	8.73	9.05	8.92	8.86	7.70
	8	7.10	6.27	5.82	5.40	5.72	5.89	6.45	7.32	8.11	8.50	8.62	8.28	7.63
	9	6.59	6.06	5.52	5.31	5.41	5.95	6.66	7.46	8.01	8.04	7.97	7.79	7.15
	10	6.15	5.57	5.21	5.06	5.32	6.03	6.36	6.81	7.31	7.60	7.78	7.81	6.76
	11	6.80	6.13	5.58	5.70	5.81	5.91	7.04	7.70	8.04	8.38	8.44	8.08	7.17
	12	7.67	6.90	6.67	6.87	7.40	7.82	8.59	9.12	9.48	9.56	9.54	9.49	8.17
	13	9.17	8.48	8.12	8.22	8.82	9.14	9.97	10.54	10.43	10.29	9.97	9.84	9.21
	14	8.68	7.96	7.41	7.36	9.06	9.84	10.15	10.34	11.11	10.79	11.66	10.96	9.68
	15	8.37	7.70	7.02	7.38	7.93	7.99	8.27	8.84	9.20	9.74	9.66	9.79	9.23
	16	8.58	7.88	7.42	7.53	7.58	8.42	8.93	9.31	9.66	9.89	10.09	10.01	9.02
	17	8.20	7.63	7.32	7.07	7.35	7.85	8.63	9.51	10.26	10.42	10.38	9.96	9.06
	18	8.41	7.80	7.55	7.52	7.80	7.76	8.34	9.63	10.34	10.23	9.90	10.06	9.17
	19	8.19	7.45	6.98	7.10	7.83	8.13	8.69	9.43	9.83	9.81	9.74	9.57	9.09
	20	8.24	7.57	7.11	7.83	8.11	8.76	8.89	9.33	9.89	10.09	10.00	9.78	8.98
	21	8.90	8.01	7.61	7.48	8.13	8.65	9.61	10.35	10.91	11.23	11.21	10.84	9.59
	22	8.63	7.78	7.38	7.53	8.56	9.12	9.77	10.33	10.58	10.44	10.19	9.80	9.53
	23	7.97	7.00	7.23	6.85	7.21	6.89	7.27	8.48	8.95	9.10	8.76	8.38	8.53
	24	7.62	7.14	6.61	6.56	7.81	8.17	8.71	9.15	9.79	9.87	9.64	9.71	8.32
	25	8.07	7.72	7.28	7.45	8.58	8.89	9.13	9.85	10.21	10.46	10.31	10.08	8.91
	26	7.95	7.36	6.97	7.48	8.04	8.51	9.31	9.40	10.17	10.37	10.37	10.07	8.92
	27	8.43	7.85	7.29	7.38	8.01	8.35	8.95	9.50	9.73	10.14	10.20	9.64	8.92
	28	8.24	7.70	7.37	7.23	7.64	8.14	8.48	8.90	9.63	9.76	9.54	9.26	8.79
	29	8.39	7.88	7.49	7.49	8.06	8.40	8.71	8.95	9.09	9.32	9·06	8.97	8.84
	30	8.20	7.66	7.22	7.21	7.53	7.99	8.62	9.08	9.56	9.84	9.70	9.53	8.58
Hourly Means.		7.83	7.18	6.75	6.85	7.34	7.72	8.30	8.92	9.38	9.53	9.49	9.27	8.49

STANDARD THERMOMETER.

APRIL.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	76.8	76.4	76.0	75.3	74.9	74.4	75.3	77.5	80.3	83.2	85.9	87.8	—
2	75.2	75.0	74.5	74.2	74.0	73.8	74.5	75.8	77.7	79.6	81.0	82.0	—
3	76.7	76.4	76.4	76.5	76.3	76.1	76.1	77.1	78.3	81.5	83.5	84.1	—
4	74.7	74.7	74.5	74.3	74.0	73.9	74.3	75.5	77.9	80.8	83.1	85.8	—
5	73.7	73.9	73.9	74.1	74.1	74.1	74.3	75.6	78.9	81.2	83.5	81.7	—
6	76.0	75.8	75.3	74.9	74.5	74.1	75.0	78.7	81.4	83.4	85.5	86.4	—
7	76.3	76.0	75.8	75.4	75.2	75.0	76.0	78.8	81.4	83.9	85.4	86.6	—
8	78.2	78.0	77.3	76.8	76.2	75.4	76.0	78.8	81.0	83.5	85.5	87 0	—
9	77.8	77.0	76.4	76.0	75.7	75.5	76.5	79.0	81.8	82.0	83.4	85.4	—
10	78.0	77.3	77.0	76.4	76.0	75.6	76.1	78.6	81.1	83.1	86.0	87.7	—
11	78.0	77.2	76.7	76.0	75.8	75.6	76.8	80.0	83.2	85.3	86.6	87.6	—
12	77.4	77.0	76.6	76.3	76.0	75.4	76.1	78.4	82.4	84.7	86.6	86.3	—
13	76.4	76.0	75.7	75.7	75.4	75.2	75.5	77.4	79.2	81.9	84.0	85.0	—
14	74.8	74.2	74.1	73.8	73.4	73.1	74.0	76.5	79.5	82.1	83.8	84.7	—
15	75.2	74.0	74.0	73.8	74.0	73.7	74.1	76.7	78.5	80.2	82.1	84.1	—
16	75.4	75.2	74.6	74.4	74.0	73.6	74.5	77.5	80.0	83.5	84.8	86.6	—
17	75.8	75.4	75.2	75.0	74.7	74.2	74.9	77.5	80.4	83.0	84.0	85.8	—
18	77.1	76.0	75.3	74.4	74.0	73.7	74.1	77.1	80.0	82.9	84.3	86.5	—
19	76.5	75.7	75.1	74.8	74.0	74.0	74.0	76.5	78.8	83.0	84.2	86.0	—
20	76.1	75.5	75.0	74.6	74.0	74.0	74.8	77.1	80.1	82.8	84.9	86.2	—
21	76.3	75.8	76.1	76.0	75.8	76.0	76.6	77.0	78.5	80.0	81.3	82.6	—
22	76.9	76.2	75.8	75.2	74.8	74.3	74.8	77.6	81.4	83.6	85.3	87.0	—
23	75.5	75.2	74.9	74.5	74.0	73.9	74.4	77.2	80.0	83.5	85.3	87.3	—
24	75.8	75.2	74.6	74.0	74.1	73.8	74.5	76.8	79.0	81.5	83.4	83.8	—
25	76.0	75.8	75.8	76.0	76.0	76.0	76.6	77.8	81.1	83.1	83.9	85.4	—
26	75.1	74.9	74.9	74.8	74.6	74.4	74.8	76.2	79.9	82.3	84.0	85.3	—
27	74.2	74.2	74.2	74.0	74.0	73.9	74.4	76.7	79.5	82.3	83.5	85.1	—
28	74.8	74.6	74.2	73.9	73.5	73.7	73.9	75.0	77.5	79.0	80.0	82.0	—
29	75.1	75.0	75.1	74.7	74.0	73.7	73.4	73.7	74.4	76.6	78.4	79.0	—
30	73.2	73.1	73.0	73.0	72.8	72.2	72.7	75.7	79.1	81.5	82.2	84.2	—
Hourly Means.	75.97	75.56	75.27	74.96	74.66	74.41	74.97	77.13	79.74	82.17	83.85	85.17	—

APRIL.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	88.5	86.1	86.1	81.7	76.3	76.0	76.2	76.1	76.1	76.5	76.5	75.9	78.99
2	83.0	82.5	84.0	82.6	82.0	80.1	78.5	78.1	77.8	77.3	77.3	77.0	78.23
3	85.0	85.2	85.8	80.6	79.4	78.4	76.5	76.0	76.0	75.8	75.5	75.0	78.68
4	87.0	85.0	84.8	78.0	73.2	73.4	73.1	73.9	74.0	73.8	74.1	73.9	76.99
5	82.5	82.9	81.4	81.2	81.6	79.0	78.2	77.9	77.4	76.7	76.3	76.0	77.91
6	87.2	87.6	87.6	86.2	85.1	83.7	82.2	80.8	79.0	78.0	78.0	77.1	80.56
7	87.3	87.5	86.3	84.5	83.7	82.8	82.1	81.0	81.0	80.2	79.2	79.0	80.85
8	87.5	86.8	86.2	85.2	84.6	83.3	82.0	80.5	79.6	79.2	79.0	78.7	81.10
9	87.1	86.9	86.4	86.0	85.0	83.8	82.3	81.2	80.7	80.0	79.5	78.8	81.01
10	87.7	87.2	86.9	85.9	85.2	84.0	82.0	81.3	80.3	79.8	79.2	78.6	81.29
11	87.2	87.1	86.5	85.5	84.7	84.2	82.6	80.9	80.1	79.2	78.6	78.0	81.39
12	87.0	86.4	86.6	84.9	79.8	78.1	77.7	77.0	76.7	76.7	76.6	76.5	79.88
13	85.4	85.7	85.2	84.5	82.4	79.9	77.8	76.0	75.7	76.0	75.2	75.2	79.02
14	86.0	86.7	86.9	85.0	77.0	76.2	75.8	75.9	75.0	75.2	75.0	75.3	78.08
15	85.4	86.7	87.2	86.9	82.6	80.9	79.5	78.2	77.4	76.7	76.0	75.6	78.90
16	86.0	86.4	85.6	82.1	80.9	80.3	79.9	78.5	77.8	77.0	76.7	76.0	79.22
17	87.6	89.5	87.0	86.8	86.6	85.0	82.6	81.7	80.1	79.0	78.0	77.1	80.70
18	87.1	86.2	84.4	81.6	81.8	81.0	80.0	79.5	79.0	78.6	78.0	77.7	79 60
19	86.8	87.0	85.4	85.0	79.2	79.4	79.2	78.5	78.3	77.6	77.1	76.7	79.28
20	86.6	86.3	86.0	80.5	78.1	78.4	78.1	77.6	77.6	77.4	77.2	76.9	78.99
21	84.0	85.5	85.6	85.6	84.1	82.7	81.2	80.1	79.4	78.7	78.0	77.4	79.76
22	85.4	86 2	86.0	85.0	84.4	78.0	77.0	76.6	76.5	76.3	76.1	75.7	79.42
23	86.7	85.8	78.0	76.4	77.1	76.8	76.7	76.4	76.2	76.2	76.0	76.0	78.08
24	85.7	85.7	85.9	85.0	81.4	79.0	78.0	77.4	76.8	76.7	76.4	75.8	78.76
25	81.4	77.5	79.0	79.6	77.9	75.9	75.5	75.3	75.3	75.5	75.5	75.3	77.80
26	85.1	80.1	79.0	79.0	78.9	75.7	74.0	74.1	74.5	74.5	74.5	74.4	77.29
27	80.6	83.0	83.5	83.0	82.5	80.0	79.3	77.7	77.1	76.2	75.5	74.7	78.30
28	83.4	82.7	81.8	82.2	81.0	78.6	77.7	77.2	76.9	76.5	76.0	75.5	77.57
29	81.1	81.3	81.1	81.1	79.7	77.2	75.8	74.9	74.7	74.2	73.7	73.4	76.30
30	85.0	85.2	84.6	84.0	83.5	82.0	81.0	79.3	78.6	77.9	77.5	77.0	78.68
Hourly Means.	85.54	85.29	84 69	83.19	81.32	79.79	78.75	77.99	77.51	77.11	76.74	76.34	79.09

UNIVERSITY OF ILLINOIS LIB
SEP 1 1921

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	940	940	940	957	956	956	939	907	841	740	668	618	—
	2	930	939	947	956	956	965	965	948	908	848	827	807	—
	3	948	966	966	940	940	940	940	907	861	792	719	687	—
	4	956	956	956	956	947	956	965	957	893	843	775	636	—
	5	965	965	973	965	973	973	973	872	808	836	776	844	—
	6	940	940	939	939	947	938	922	853	806	767	691	663	—
	7	940	940	940	948	947	956	940	902	806	762	692	652	—
	8	942	917	932	940	957	948	931	854	812	699	686	567	—
	9	908	916	924	932	940	940	924	886	799	800	775	699	—
	10	917	925	932	940	948	931	924	878	806	732	662	611	—
	11	917	925	924	940	931	931	924	879	801	738	683	599	—
	12	932	932	932	932	923	939	923	893	809	731	716	721	—
	13	940	940	957	957	957	957	940	892	855	785	741	738	—
	14	947	956	956	956	956	965	947	906	848	765	749	758	—
	15	947	938	930	947	947	965	947	867	831	819	779	743	—
	16	948	939	956	947	956	956	947	844	787	697	682	694	—
	17	940	939	939	947	947	956	956	892	811	725	707	661	—
	18	851	881	905	921	921	929	912	875	818	724	663	619	—
	19	833	856	897	904	930	921	930	899	854	774	736	681	—
	20	940	940	947	947	956	956	947	900	826	732	691	670	—
	21	948	957	957	957	957	957	957	941	885	848	806	787	—
	22	932	931	931	939	947	939	930	868	776	741	725	697	—
	23	931	939	939	930	947	956	947	859	796	726	691	616	—
	24	948	947	956	956	956	956	956	883	839	777	741	707	—
	25	931	940	948	948	948	948	915	901	820	747	728	686	—
	26	966	974	974	965	973	965	965	957	870	772	741	703	—
	27	973	973	973	973	973	973	973	924	840	744	734	678	—
	28	922	930	939	947	956	956	956	947	876	831	818	793	—
	29	947	966	947	956	965	965	965	956	930	899	853	816	—
	30	955	955	964	946	946	955	937	898	824	756	745	682	—
Hourly Means.		934	939	944	946	950	952	943	898	835	772	733	694	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	629	676	708	777	882	906	940	940	948	940	940	940	860
	2	788	794	749	780	815	842	877	893	908	932	932	932	885
	3	710	731	674	804	847	861	924	931	948	940	940	956	870
	4	616	731	709	868	929	946	955	947	956	965	965	965	890
	5	794	753	806	851	821	847	877	892	924	916	932	940	887
	6	654	613	631	695	711	777	838	880	894	917	917	932	825
	7	648	618	644	703	742	789	823	873	850	903	926	918	828
	8	642	677	675	697	696	739	792	842	886	902	902	902	814
	9	659	640	689	688	724	761	808	837	880	895	903	918	827
	10	625	616	615	668	711	777	844	865	872	879	886	909	811
	11	647	659	664	719	737	763	838	842	856	878	893	917	817
	12	704	690	671	697	781	846	860	907	924	924	932	940	844
	13	725	727	725	722	815	903	917	948	940	940	947	939	871
	14	720	723	697	703	916	940	940	948	956	956	974	966	881
	15	699	664	654	678	716	783	824	877	892	916	931	940	843
	16	675	644	706	772	805	842	855	853	884	907	916	931	839
	17	630	582	697	709	709	697	766	777	834	863	861	859	809
	18	622	669	757	791	799	835	887	910	918	926	925	925	833
	19	652	697	739	744	854	839	926	933	942	925	941	932	847
	20	703	715	714	760	917	918	925	925	941	932	924	940	865
	21	742	733	699	687	708	780	843	887	902	918	933	932	863
	22	712	708	700	704	730	884	891	907	924	924	923	923	845
	23	709	693	781	873	891	948	957	957	966	957	957	966	872
	24	672	679	635	644	740	815	908	932	906	899	923	940	846
	25	843	875	886	927	867	940	966	957	966	966	966	974	900
	26	705	872	847	886	885	906	956	965	956	965	965	965	904
	27	819	781	754	711	759	789	816	892	916	890	905	913	862
	28	754	752	785	758	827	885	917	941	940	948	948	957	887
	29	769	762	791	783	802	925	923	930	930	939	947	956	901
	30	691	698	683	701	713	786	843	902	918	933	925	940	846
Hourly Means.		699	706	716	750	795	842	881	903	916	923	929	936	856

DIRECTION OF THE WIND.

APRIL. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	N	N	C	N	N	N	N	WSW	WSW	W
2	ESE	ESE	ESE	C	C	ESE	ESE	ESE	ESE	NE	NNE	N
3	NNW	NNW	NNW	NNW	ESE	SE	SE	SE	SE	SSE	E	ENE
4	C	C	C	C	NW	NW	NW	SSW	SSW	SE	ENE	ENE
5	C	C	C	C	C	SE	SE	C	SE	ENE	E	E
6	C	C	C	C	C	C	C	SE	E	ESE	ESE	ENE
7	C	C	C	C	C	C	C	SSE	E	E	E	E
8	C	C	C	C	E	E	E	ESE	ESE	E	ENE	ESE
9	C	C	C	C	C	C	NE	C	ENE	NE	N	NE
10	C	C	C	C	C	C	NNE	ESE	ESE	E	ENE	ENE
11	C	C	C	C	C	C	C	C	N	S	ENE	NNE
12	C	C	C	C	C	C	N	N	ENE	E	NE	NNE
13	C	C	C	C	C	C	SW	C	WSW	S	ENE	E
14	C	C	C	C	C	C	C	C	SW	NW	NW	N
15	WNW	C	C	C	C	WNW	WNW	WNW	WNW	W	W	WNW
16	C	C	C	C	C	C	C	C	C	ESE	NE	NNW
17	C	C	C	C	C	C	NNW	C	N	NE	N	NW
18	C	C	C	C	C	C	NNW	NNE	WNW	W	WSW	NNW
19	WNW	C	C	C	C	C	WNW	C	WNW	WSW	WNW	NW
20	C	C	C	C	C	C	C	C	ENE	N	WNW	NW
21	C	C	C	C	C	C	WSW	WSW	ESE	SE	E	ENE
22	C	NE	NE	C	C	NE	NE	C	E	E	ENE	ENE
23	C	C	C	C	C	C	C	SSW	E	SSW	SW	S
24	C	C	C	C	C	C	E	C	C	S	NW	NNE
25	C	W	W	C	C	C	W	W	SW	SW	SW	NE
26	C	S	C	C	C	C	C	S	SE	E	E	E
27	C	C	C	C	C	C	C	SE	E	ESE	ESE	ENE
28	C	C	C	C	C	C	C	SE	E	E	E	E
29	C	C	E	ENE	ENE	ESE	SE	SSE	SE	ESE	ENE	ENE
30	C	C	C	C	C	C	C	ESE	E	E	E	NE

APRIL. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
1	NNW	N	NNW	WSW	N	N	N	N	N	ENE	E	ESE
2	N	N	NNW	NNW	NNW	NNW	NNW	C	C	C	C	C
3	ENE	NE	ESE	SSE	C	C	C	C	C	C	C	C
4	ENE	NNE	N	W	SSW	S	S	SE	C	C	SE	C
5	ENE	E	E	ENE	ESE	SE	SE	SE	SE	SE	SE	SE
6	E	ENE	E	NE	NE	ENE	ENE	ENE	S	S	C	S
7	E	E	E	E	E	E	E	C	C	C	C	E
8	NE	NE	NE	N	N	NE	C	C	C	C	NE	NE
9	NE	NNE	NNE	NE	NNE	NNE	C	C	C	C	C	C
10	NNE	NNE	NE	N	NNE	N	C	C	C	C	C	C
11	NNE	N	NNE	N	N	C	N	N	C	C	N	N
12	NNE	NNE	NNE	N	W	WSW	WSW	WSW	C	C	C	C
13	E	NE	NE	NE	ENE	SE	SSE	SW	SW	C	C	C
14	NNW	NNW	N	N	SW	SW	SW	SSW	SSW	C	SSW	SSW
15	WNW	WSW	W	W	E	E	C	C	C	C	C	C
16	ENE	NE	NNE	N	NNW	NNW	NNW	C	C	C	C	C
17	W	WNW	NNW	NNW	NNW	NNW	NNW	NNW	C	C	C	C
18	N	NNW	SSE	NNE	C	C	C	C	C	C	C	NNE
19	NW	N	NNW	NNW	ENE	C	C	C	C	C	C	C
20	NNE	N	N	W	C	C	WSW	C	C	WSW	WSW	C
21	E	ENE	ENE	NE	NE	NE	NE	NE	NE	C	C	NE
22	NE	NE	NE	NNE	NNE	SW	SSW	SSW	SSW	C	C	C
23	NE	ENE	NNW	NNW	C	C	C	C	C	C	C	C
24	N	NNE	NNE	NE	NW	W	W	W	C	C	C	C
25	NNW	NE	NE	NE	S	SSW	SSW	SSW	SSW	SSW	SSW	C
26	NE	NE	ENE	C	S	S	WSW	C	C	C	C	C
27	N	NE	NE	ENE	E	E	E	C	E	ESE	SE	SE
28	ENE	NE	ENE	ENE	ENE	E	ESE	C	C	C	C	C
29	NE	ENE	NNE	NNE	N	N	N	C	C	C	C	C
30	N	NE	NE	NE	NE	NE	NE	C	NE	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

APRIL. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	0.0	0.8	0.8	0.0	0.8	1.6	0.8	4.8	6.4	6.4	6.4	—
2	1.6	1.6	0.8	0.0	0.0	0.8	0.8	1.6	2.4	4.0	5.6	8.0	—
3	0.8	0.8	2.4	4.8	4.8	2.4	3.2	4.8	7.2	7.2	9.7	11.3	—
4	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2	4.0	4.0	5.6	9.7	—
5	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.0	2.4	9.7	12.1	13.7	—
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	12.1	12.9	12.9	12.1	—
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.4	9.7	12.9	12.1	—
8	0.0	0.0	0.0	0.0	0.8	0.8	1.6	0.8	3.2	4.0	5.6	7.2	—
9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.8	1.6	4.0	—
10	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	3.2	8.0	5.6	—
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.0	8.0	9.7	—
12	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.0	4.8	7.2	12.9	—
13	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	3.2	4.8	9.7	—
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	3.2	3.2	—
15	3.2	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6	1.6	2.4	—
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	3.2	—
17	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	1.6	1.6	3.2	—
18	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.4	1.6	4.8	—
19	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	3.2	5.6	6.4	—
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.0	4.8	—
21	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	8.0	7.2	8.0	12.1	—
22	0.0	0.8	0.8	0.0	0.0	0.8	0.8	0.0	3.2	4.8	4.8	9.7	—
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.8	1.6	4.0	—
24	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	2.4	6.4	—
25	0.0	0.8	1.6	0.0	0.0	0.0	1.6	3.2	6.4	4.8	3.2	4.8	—
26	0.0	0.8	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8	6.4	9.7	—
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.0	8.9	6.4	8.9	—
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.4	5.6	10.5	—
29	0.0	0.0	3.2	0.8	1.6	0.8	1.6	2.4	5.6	8.0	8.9	8.0	—
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	5.6	7.2	6.4	9.7	—
Hourly Means.	0.21	0.16	0.32	0.21	0.29	0.32	0.77	1.47	3.55	4.89	5.75	7.81	—

APRIL. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.0	13.7	13.7	8.0	3.2	0.8	0.8	1.6	1.6	4.8	4.8	3.2	3.88
2	9.7	9.7	8.0	6.4	2.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0	2.78
3	10.5	10.5	8.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.72
4	11.3	13.7	11.3	11.3	8.0	0.8	1.6	1.6	0.0	0.0	0.8	0.0	3.82
5	16.1	12.1	8.0	6.4	4.0	4.8	2.4	0.8	1.6	1.6	0.8	0.8	4.15
6	12.9	13.7	10.5	11.3	12.1	8.0	1.6	0.8	3.2	1.6	0.0	0.8	5.57
7	14.5	13.7	12.9	10.5	4.8	3.2	0.8	0.0	0.0	0.0	0.0	0.8	4.36
8	8.9	10.5	12.1	8.0	6.4	1.6	0.0	0.0	0.0	0.0	0.8	0.8	3.05
9	8.0	8.0	9.7	9.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.01
10	8.0	9.7	10.5	6.4	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.54
11	12.1	10.5	11.3	7.2	3.2	0.0	1.6	1.6	0.0	0.0	0.8	0.8	3.05
12	13.7	12.1	12.9	8.0	7.2	6.4	3.2	1.6	0.0	0.0	0.0	0.0	4.05
13	9.7	12.9	15.3	14.5	6.4	2.4	3.2	4.0	1.6	0.0	0.0	0.0	3.75
14	4.8	5.6	7.2	8.0	5.6	0.8	1.6	1.6	1.6	0.0	0.8	1.6	2.07
15	2.4	2.4	1.6	1.6	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.07
16	4.0	7.2	5.6	2.4	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	1.10
17	2.4	6.4	8.9	8.0	3.2	0.8	0.8	1.6	0.0	0.0	0.0	0.0	1.70
18	4.8	4.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.03
19	6.4	6.4	4.8	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.67
20	8.0	9.7	7.2	3.2	0.0	0.0	0.8	0.0	0.0	0.8	1.6	0.0	1.80
21	8.0	9.7	9.7	11.3	9.7	4.8	0.8	0.8	1.6	0.0	0.0	0.8	3.99
22	10.5	12.1	9.7	8.0	8.0	6.4	0.8	0.8	0.8	0.0	0.0	0.0	3.45
23	5.6	9.7	7.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.54
24	8.0	9.7	9.7	8.0	3.2	1.6	2.4	0.8	0.0	0.0	0.0	0.0	2.24
25	4.8	6.4	1.6	1.6	8.9	3.2	0.8	0.8	1.6	1.6	0.8	0.0	2.44
26	12.9	6.4	8.0	0.0	4.8	12.1	4.8	0.0	0.0	0.0	0.0	0.0	3.15
27	4.8	7.2	13.7	13.7	8.9	6.4	3.2	0.0	3.2	1.6	1.6	1.6	4.22
28	11.3	8.0	4.8	4.0	8.0	4.0	0.8	0.0	0.0	0.0	0.0	0.0	2.91
29	6.4	8.0	6.4	3.2	0.8	1.6	3.2	0.0	0.0	0.0	0.0	0.0	2.94
30	5.6	9.7	10.5	8.9	6.4	1.6	0.8	0.0	0.8	0.0	0.0	0.0	3.18
Hourly Means.	8.47	9.31	8.75	6.53	4.68	2.56	1.28	0.61	0.59	0.40	0.43	0.40	2.91

CLOUDS.

CLEAR = 0. OVERCAST = 10.

APRIL. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	5	7	6	6	7	7	2	3	3	4	4	4	—
2	10	10	7	5	6	10	8	10	9	9	9	9	—
3	4	7	10	10	10	10	10	10	10	6	6	8	—
4	6	6	8	10	10	10	10	10	4	3	3	2	—
5	1	9	10	10	8	7	4	10	10	7	7	10	—
6	8	4	3	5	4	6	5	2	2	4	4	4	—
7	3	3	2	2	3	4	7	6	4	6	7	6	—
8	5	8	4	2	1	2	3	4	8	1	1	2	—
9	2	4	5	4	7	6	6	4	3	9	8	3	—
10	2	2	2	2	2	3	2	3	3	7	5	9	—
11	3	3	6	5	5	6	5	6	5	5	5	4	—
12	3	3	4	4	2	4	6	5	4	5	7	6	—
13	9	10	10	7	6	7	10	8	8	7	7	7	—
14	4	5	3	4	2	6	2	2	2	3	4	6	—
15	9	10	10	9	8	8	10	6	7	8	9	9	—
16	4	2	2	1	2	3	2	1	2	3	3	4	—
17	6	5	5	4	4	3	2	2	3	3	4	3	—
18	2	3	2	1	2	2	2	2	4	4	5	5	—
19	9	10	10	9	10	10	7	6	6	4	3	6	—
20	1	1	0	1	1	2	1	0	1	3	8	9	—
21	4	5	6	8	8	10	10	10	10	10	10	8	—
22	3	2	2	2	3	4	3	2	3	7	6	7	—
23	4	4	3	2	3	3	3	5	5	3	4	4	—
24	7	6	6	6	7	6	7	4	4	3	6	4	—
25	10	10	10	9	9	9	7	9	6	7	7	10	—
26	6	7	9	9	7	4	3	3	4	4	5	4	—
27	10	10	10	10	10	10	9	8	5	3	7	8	—
28	10	9	5	3	2	9	9	10	10	10	10	9	—
29	10	10	10	10	10	10	10	10	10	10	9	10	—
30	9	8	9	9	8	7	2	1	2	2	9	6	—
Hourly Means.	5.6	6.1	6.0	5.6	5.6	6.3	5.6	5.4	5.2	5.3	6.1	6.2	—

APRIL. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	0	6	7	10	10	7	10	10	10	10	10	10	6.6
2	9	8	7	9	10	10	10	10	10	10	10	10	9.0
3	9	7	10	10	10	10	10	9	8	4	1	1	7.9
4	5	4	7	10	10	10	10	10	10	10	10	5	7.6
5	9	8	9	10	9	9	7	9	8	10	8	8	8.2
6	8	6	5	7	6	4	2	1	3	3	6	3	4.4
7	8	8	8	8	8	7	6	8	10	10	9	6	6.2
8	2	2	1	2	2	3	1	0	0	0	7	2	2.6
9	2	2	3	3	5	4	6	4	5	9	5	5	4.8
10	2	1	1	1	2	3	4	4	5	8	4	4	3.4
11	6	5	6	4	4	6	4	2	4	3	3	3	4.5
12	4	4	5	9	10	10	10	10	10	10	10	10	6.5
13	8	7	7	9	10	10	10	10	10	8	1	1	7.8
14	7	5	5	6	10	10	10	10	10	10	10	9	6.0
15	7	4	6	9	9	7	3	3	2	2	3	3	6.7
16	7	6	8	10	9	7	9	7	4	2	3	5	4.4
17	4	4	4	4	3	2	0	0	0	2	1	1	2.9
18	7	8	9	9	8	6	4	9	3	4	2	9	4.7
19	7	9	6	9	10	9	7	8	8	7	6	4	7.5
20	2	2	3	10	10	10	10	8	9	6	8	7	4.7
21	6	6	6	4	2	4	1	1	1	1	2	2	5.6
22	4	4	4	4	9	10	10	10	8	9	6	7	5.4
23	7	9	10	9	9	10	10	10	10	9	9	8	6.4
24	3	3	3	5	10	10	10	10	9	9	8	7	6.4
25	10	10	10	10	10	10	10	10	10	10	10	10	9.3
26	6	10	10	10	10	10	10	10	10	10	10	10	7.5
27	10	9	8	4	3	9	10	9	9	9	6	7	8.0
28	9	10	9	8	10	8	9	6	10	9	8	9	8.4
29	10	9	8	8	10	10	9	4	3	4	3	5	8.4
30	7	5	5	3	5	6	4	2	2	1	1	2	4.8
Hourly Means.	6.2	6.0	6.3	7.1	7.8	7.7	7.2	6.8	6.7	6.6	6.0	5.8	6.22

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

APRIL. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	8.5	14.4	10.9	8.9	8.5	7.5	8.9	8.0	5.0	2.5	2.5	2.0	—
2	3.5	4.0	3.5	4.0	4.5	5.0	8.9	10.4	9.9	6.5	4.0	3.0	—
3	9.4	7.5	7.0	5.5	3.0	4.5	5.0	4.5	4.0	2.0	1.5	3.5	—
4	4.0	5.0	3.5	2.5	3.5	6.0	9.9	13.4	8.5	4.0	3.0	2.5	—
5	2.0	2.0	1.5	1.0	1.0	8.0	9.9	11.9	8.9	6.5	5.5	7.5	—
6	—	—	—	—	—	—	16.9	6.5	5.0	4.5	4.0	4.0	—
7	1.5	—	—	—	—	—	15.4	—	5.0	2.5	2.5	2.5	—
8	7.0	8.5	8.5	7.5	5.5	4.0	6.0	—	—	—	—	—	—
9	—	—	—	—	—	—	—	3.5	3.5	2.5	0.5	0.5	—
10	8.0	6.0	7.0	6.0	7.5	7.0	9.9	—	—	—	—	—	—
11	—	—	—	—	—	—	—	8.0	4.0	2.5	2.0	1.5	—
12	8.9	8.5	8.5	7.0	6.0	7.0	8.9	3.5	3.0	1.5	0.5	1.0	—
13	8.5	7.5	9.4	6.5	9.4	8.5	10.4	6.0	4.0	1.5	0.5	0.5	—
14	10.4	9.4	10.4	8.5	8.0	13.4	22.4	9.9	8.5	3.5	3.5	2.5	—
15	5.5	5.5	6.0	5.5	5.5	7.0	12.4	7.0	6.0	5.0	4.5	4.0	—
16	17.9	13.4	14.9	12.4	12.9	9.9	10.9	8.0	6.5	5.0	3.0	2.0	—
17	17.4	11.4	14.9	12.9	17.4	18.4	20.9	12.9	7.0	2.5	2.5	3.5	—
18	7.5	8.5	9.9	11.4	9.9	11.4	16.9	9.9	7.0	4.0	4.5	2.5	—
19	6.0	7.5	8.5	8.0	12.9	10.9	12.4	10.9	8.0	3.5	3.0	2.0	—
20	13.9	13.4	16.4	18.9	15.4	10.9	15.9	11.9	7.5	5.5	4.0	3.0	—
21	12.9	11.9	8.9	8.5	13.9	14.4	11.4	6.5	4.0	2.5	3.0	1.5	—
22	10.4	9.4	9.9	11.9	11.4	7.5	14.9	8.9	5.0	2.5	2.5	2.5	—
23	9.9	7.0	7.5	6.0	7.5	14.9	6.5	8.0	4.0	2.0	2.5	2.0	—
24	9.9	8.5	8.0	6.0	10.4	16.4	19.9	12.4	12.9	8.0	6.0	2.5	—
25	8.5	9.4	9.9	10.9	6.5	7.5	8.9	6.0	4.0	2.5	3.0	1.5	—
26	14.9	10.9	10.9	11.4	15.4	14.9	17.4	18.4	7.5	4.0	4.0	3.0	—
27	19.9	14.4	11.4	11.4	14.4	22.4	17.9	11.4	6.0	4.5	4.5	4.0	—
28	6.5	12.9	11.4	10.9	13.4	15.9	18.4	18.9	10.4	5.0	4.5	3.0	—
29	17.4	19.9	5.0	P N	P N	3.0	5.5	6.0	7.5	6.0	4.5	2.5	—
30	18.9	17.9	16.4	11.9	12.4	12.9	17.9	8.5	4.5	3.5	3.0	3.0	—
Hourly Means.	10.0	9.8	9.2	8.6	9.4	10.4	12.9	9.3	6.3	3.8	3.2	2.6	—

APRIL. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	2.0	0.5	2.5	P N	P N	P N	— 7.5	6.5	7.0	4.5	5.5	2.5	5.3
2	2.5	3.0	— 2.0	P	P	0.0	2.0	10.4	8.9	9.4	7.5	11.4	5.5
3	4.5	3.5	N	1.5	8.0	P	P	15.9	15.9	16.4	17.4	—	7.1
4	3.5	2.5	P N	P N	P N	P N	P N	P N	P N	P N	1.5	2.0	4.7
5	7.0	8.5	— 2.0	— 12.4	7.0	3.5	7.0	8.0	9.4	8.9	7.0	—	5.1
6	3.0	3.5	3.0	—	—	6.0	7.5	4.5	5.0	4.0	2.0	1.5	5.0
7	2.5	2.5	3.0	3.5	5.5	7.0	8.9	10.9	11.9	11.4	10.4	8.5	6.4
8	—	—	—	—	—	—	—	—	—	—	—	—	6.7
9	1.5	2.0	0.5	0.5	3.0	3.0	9.4	15.9	10.4	9.4	12.4	9.9	5.2
10	—	—	—	—	—	—	—	—	—	—	—	—	7.3
11	1.5	2.0	2.0	4.0	3.5	5.0	9.9	8.5	9.4	11.4	10.9	9.4	5.6
12	0.5	1.0	7.5	13.9	13.4	11.4	P	N	10.9	7.5	9.4	10.4	6.8
13	2.0	0.5	1.5	P N	P N	P N	P N	P N	10.9	10.9	10.4	11.9	6.4
14	2.5	2.5	4.0	18.4	P N	P N	P N	P N	P N	— 12.4	9.9	11.4	7.7
15	3.5	5.0	4.5	3.5	5.5	7.0	8.9	13.4	14.9	12.9	13.9	14.9	7.6
16	1.5	2.0	6.0	N	P N	P N	P N	8.5	13.4	12.4	15.9	14.9	9.6
17	3.0	3.5	2.0	3.5	3.0	6.5	14.4	9.9	11.9	11.4	10.4	8.9	9.6
18	2.0	— 8.9	8.0	P	13.4	9.9	10.4	5.0	9.9	12.4	9.9	11.9	8.1
19	2.5	0.5	3.5	— 1.5	P N	12.4	7.5	11.9	18.4	17.4	15.4	17.4	8.7
20	4.0	— 0.5	N	P N	P N	P N	P N	5.0	9.9	8.5	7.0	8.0	9.4
21	1.5	2.0	2.5	3.0	3.5	6.0	9.9	9.9	15.4	10.9	10.9	14.4	7.9
22	3.5	2.5	5.0	P N	P N	P N	P N	3.0	8.0	3.5	9.4	9.9	7.1
23	2.0	P N	P N	P N	P N	P N	3.0	6.0	8.9	9.4	9.4	8.5	6.6
24	4.0	4.0	5.0	9.9	P	1.5	P N	9.4	9.4	13.4	10.9	12.9	9.2
25	N	P N	P N	P N	P N	P N	P N	P N	5.5	— 1.0	9.9	14.9	6.7
26	0.0	— 19.9	N	N	P N	P N	P N	P N	14.4	14.9	13.9	14.9	9.5
27	5.5	5.5	4.0	6.0	9.4	9.4	11.4	9.4	8.5	6.0	6.5	6.5	9.6
28	3.0	— 1.5	14.9	6.5	6.0	8.0	21.9	10.4	13.4	11.9	14.4	18.4	10.8
29	4.0	3.5	4.0	7.5	9.9	N	10.9	12.4	13.4	14.4	16.4	14.9	9.0
30	3.0	3.5	3.0	3.5	4.0	6.5	9.4	12.4	13.4	12.9	11.4	10.9	9.4
Hourly Means.	2.8	1.3	3.7	4.5	6.8	6.4	8.5	9.4	11.1	9.4	10.4	10.8	7.53

BAROMETRIC PRESSURE.

BAROMETER AT 0°C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	9.06	8.78	8.50	8.41	8.70	8.97	9.26	9.79	10.10	9.88	9.57	9.13	—
2	9.44	8.95	8.83	8.79	8.76	9.04	9.10	9.43	9.50	9.46	9.17	8.61	—
3	9.26	8.80	8.46	8.23	8.17	8.65	9.11	9.37	9.56	9.54	9.20	8.62	—
4	8.61	8.43	8.20	8.25	8.30	8.36	8.86	9.08	9.43	9.46	9.27	8.38	—
5	9.16	8.48	8.04	7.55	7.57	7.89	8.32	8.81	9.26	9.38	8.92	8.31	—
6	8.34	7.99	7.75	7.55	7.90	8.35	8.84	9.31	9.51	9.35	8.52	7.94	—
7	7.93	7.39	7.35	7.05	7.33	7.74	8.16	8.86	8.69	8.66	7.87	7.35	—
8	8.24	7.69	7.50	7 51	7.45	7.71	7.73	8.06	8.08	8.22	7.76	7.52	—
9	7.65	7.45	7.16	7.00	6.76	7.21	7.92	8.46	8.63	8.81	8.55	7.96	—
10	8.50	7.79	7.63	6.89	6.61	7.09	7.83	8.39	9.00	9.10	8.98	8.42	—
11	8.96	8.64	8.60	8.61	8.88	9.14	9.96	9.96	9.95	9.63	9.44	8.95	—
12	9.28	8.81	8.29	8.16	8.29	8.46	8.99	9.39	9.60	9.59	9.33	8.74	—
13	8.60	8.11	7.96	7.83	7.85	8.22	8.70	9.12	9.31	9.33	9.10	8.51	—
14	8.90	8.55	8.23	7.85	8.20	8.76	9.60	9.95	10.18	10.16	9.83	9.50	—
15	9.43	9.04	8.70	8.66	9.39	9.50	9.99	10.79	10.47	10.41	10.10	9.28	—
16	9.53	9.10	8.56	8.54	8.71	8.82	9.24	9.61	9.51	9.27	8.73	8.20	—
17	8.06	7.63	7.54	7.46	7.59	7.96	8.52	8.84	9.20	9.04	8.71	7.94	—
18	7.95	7.34	7.35	7.05	7.58	8.11	8.49	9.04	9.31	8.74	8.21	7.89	—
19	8.05	7.41	7.39	7.26	7.57	7.72	8.15	8.67	8.56	8.55	8.03	7.52	—
20	7.78	7.41	7.19	6.90	7.21	7.54	8.07	8.66	8.70	8.54	8.17	7.55	—
21	8.14	7.85	7.61	7.39	7.46	7.73	8.17	8.61	8.65	8.41	7.92	7.19	—
22	8.00	7.81	7.70	7.48	7.65	7.87	8.19	8.61	8.45	8.46	8.38	7.93	—
23	8.46	7.94	7.57	7.35	7.48	7.81	8.11	8 66	8.82	8.78	8.56	7.91	—
24	8.73	8.34	7.28	7.69	7.95	8.25	8.93	9.44	9.71	9.62	9.30	8.57	—
25	8.61	7.79	7.47	7.45	7.59	7.86	8.72	9.11	9.29	9.47	9.08	8.44	—
26	8.60	8.06	7.51	7.49	7.61	7.89	8.00	8.64	8.81	9.07	8.96	8.55	—
27	7.94	7.66	7.53	7.50	7.62	8.11	8.52	8.90	8.94	8.71	8.55	8.28	—
28	8.30	7.80	7.75	7.55	7.86	8.21	8.59	9.01	9.19	9.20	8.73	8.00	—
29	8.25	7.81	7.43	7.64	7.74	8.21	8.95	9.62	9.94	9.94	9.45	9.00	—
30	8.34	7.96	7.71	8.10	8.26	8.50	9.23	9.67	9.62	9.35	8.91	8.30	—
31	8.58	8.24	8.15	8.11	8.27	8.54	8.86	9.47	9.34	8.98	8.67	8.01	—
Hourly Means.	8.54	8.10	7.84	7.72	7.88	8.20	8.68	9.14	9.27	9.20	8.84	8.28	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.93	8.38	7.88	7.73	7.88	8.13	8.57	9.27	9.82	10.20	10.18	9.96	9.05
2	7.78	7.62	6.70	7.42	7.55	7.83	8.55	9.18	9.50	9.78	9.79	9.30	8.75
3	8.08	7.34	6.79	6.64	6.77	7.36	7.76	8.18	8.65	8.70	9.15	8.91	8.39
4	7.77	7.00	7.48	7.89	8.20	8.70	9.19	9.91	10.28	9.99	9.65	9.46	8.76
5	7.61	7.28	7.53	7.41	7.63	8.21	8.74	9.13	9.18	9.15	9.01	8.83	8.39
6	7.41	6.81	6.43	6.58	6.97	7.33	8.08	8.53	8.89	8.91	9.04	8.60	8.12
7	6.68	6.31	5.83	6 23	6.52	7.28	7.88	8.06	8.88	9.16	9.04	8.59	7.70
8	7.13	6.67	6.21	6.23	6.57	6.87	7.24	7.94	7.86	7.55	7.93	7.75	7.48
9	6.90	6.18	5.63	5.83	6.12	6.63	6.89	8.03	8.72	8.88	8.91	9.04	7.56
10	8.14	7.61	6.93	7.11	7.42	7.96	8.44	8.88	9.48	9.56	9.69	9.53	8.21
11	8.63	7.93	7.68	7.70	8.08	8.41	9.08	9.42	9.98	10.11	10.14	9.94	9.08
12	8.06	7.16	6.32	6.62	7.08	7.55	8.41	9.00	9.33	9.74	9.45	9.01	8.53
13	7.69	7.12	6.51	6.71	7.23	7.40	8.09	8.42	8.99	9.28	9.30	9.08	8.27
14	8.48	8.18	7.84	8.58	8.73	9.01	9.23	9.71	10.38	10.59	10.50	10.21	9.21
15	8.67	7.93	7.88	7.88	8.38	8.68	8.91	9.71	9.94	9.98	10.01	9.85	9.32
16	7.67	6.89	6.70	6.38	6.98	7.94	8.20	8.23	8.93	9.10	9.08	8.66	8.44
17	6.97	6.22	6.02	5.92	6.38	6.60	7.31	7.58	8.07	8.48	8.40	7.91	7.68
18	7.06	6.43	6.21	7.11	7.03	7.48	8.22	8.64	9.00	8.84	8.69	8.62	7.93
19	6.87	6.41	6.00	6.16	6.68	7.56	7.78	8.34	8.65	8.56	8.48	8.30	7.69
20	7.43	7.01	6.80	7.06	7.27	7.51	8.22	8.68	9.03	9.04	8.88	8.69	7.89
21	6.97	6.40	6.01	6.01	6.07	6.57	7.03	7.59	8.17	8.46	8.20	8.28	7.54
22	7.02	6.56	6.16	6.05	6.14	6.56	7.28	8.05	8.66	9.17	8.96	8.73	7.74
23	7.30	6.41	6.04	6.09	6.27	6.83	7.69	8.45	9.11	9.45	9.34	9.13	7.90
24	7.70	6.83	6.38	6.43	6.53	7.10	7.71	8.36	9.01	9.39	9.39	9.14	8.24
25	8.23	7.53	6.84	6.83	7.06	7.73	8.59	8.88	9.10	9.15	9.13	8.89	8.29
26	8.10	7.39	7.33	7.03	7.13	7.41	7.98	8.16	8.54	8.84	8.85	8.35	8.10
27	7.59	6.77	6.25	6.03	6.18	6.46	7.16	7.52	8.13	8.50	8.64	8.60	7.75
28	7.42	6.52	6.61	6.52	6.68	7.05	7.48	8.13	8.76	8.65	8.59	8.53	7.96
29	8.71	8.02	7.25	7.23	7.41	7.69	7.99	8.44	8.86	9.02	8.79	8.70	8.42
30	7.76	7.51	6.97	7.08	7.27	7.53	7.78	8.44	8.83	9.27	9.34	9.46	8.37
31	7.60	7.00	6.74	6.90	7.33	7.46	8.30	8.64	9.07	9.28	9.31	9.21	8.34
Hourly Means.	7.69	7.08	6.71	6.82	7.08	7.51	8.06	8.56	9.03	9.19	9.16	8.93	8.23

STANDARD THERMOMETER.

MAY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	76.6	76.1	75.4	74.8	74.2	73.5	74.0	77.5	81.0	83.0	84.5	86.0	—
2	77.2	77.2	76.7	76.3	75.8	75.4	76.1	78.7	81.5	83.6	85.2	85.4	—
3	75.2	75.0	74.3	74.0	73.9	73.2	73.9	76.0	79.4	82.0	84.0	84.7	—
4	77.6	77.0	76.4	76.1	75.7	75.1	75.5	77.9	81.4	84.2	86.0	87.1	—
5	75.0	74.4	74.3	74.1	74.0	73.9	74.7	77.1	80.7	82.7	85.0	86.5	—
6	75.2	75.0	75.2	75.1	75.1	74.9	75.2	77.2	80.0	82.3	83.3	84.0	—
7	77.0	76.4	76.0	75.6	75.1	74.8	75.7	78.7	82.3	83.2	86.4	87.0	—
8	76.3	76.0	75.5	75.1	74.8	74.6	74.8	76.9	78.8	80.4	82.9	84.9	—
9	75.8	75.7	75.3	74.7	74.1	74.0	74.6	77.0	80.6	83.0	83.0	84.1	—
10	77.0	76.6	76.0	75.5	75.2	75.0	75.5	77.1	78.0	80.9	82.0	82.7	—
11	76.1	75.4	75.2	74.9	74.7	74.4	75.3	78.2	80.5	83.0	84.5	86.2	—
12	75.6	74.9	74.6	74.2	74.0	73.6	74.3	77.0	79.8	82.7	84.7	86.6	—
13	75.0	74.8	74.4	74.0	73.6	73.2	73.8	76.0	79.0	82.1	84.1	86.8	—
14	75.4	75.3	74.7	74.6	74.6	74.2	75.2	78.2	81.2	84.0	85.5	85.9	—
15	74.7	74.5	74.3	74.1	73.9	73.5	73.7	74.2	74.6	76.1	78.0	79.5	—
16	74.9	74.4	74.2	73.9	73.5	73.1	73.8	77.0	80.3	82.8	84.2	84.6	—
17	75.2	75.2	75.0	74.6	74.2	74.0	74.2	75.0	79.1	82.3	84.4	84.9	—
18	77.2	76.7	76.0	75.9	75.0	74.9	75.0	75.7	77.3	81.7	84.9	87.0	—
19	75.6	74.9	74.7	74.2	73.9	73.2	74.2	76.0	78.3	83.2	85.8	87.3	—
20	76.0	75.8	75.6	75.2	74.8	74.2	74.5	76.2	79.5	83.0	85.0	87.0	—
21	76.1	75.3	75.1	74.7	74.4	74.0	74.4	78.2	81.3	84.0	86.2	87.2	—
22	76.6	75.9	75.2	74.7	73.8	73.2	74.2	77.4	81.3	84.5	86.4	87.3	—
23	76.6	76.1	75.3	74.6	74.2	73.9	74.9	77.6	81.4	84.8	86.8	88.0	—
24	77.1	76.3	76.1	75.8	75.4	75.1	76.2	78.1	81.4	84.2	86.2	87.7	—
25	77.4	76.5	76.1	75.9	75.2	74.6	75.2	78.2	82.1	83.5	84.6	86.1	—
26	74.4	74.2	74.0	73.8	73.4	73.0	73.6	75.3	78.2	80.8	83.0	83.6	—
27	76.0	75.8	75.3	74.9	74.3	74.0	74.2	77.0	80.6	82.3	83.4	84.2	—
28	76.6	76.7	76.5	76.5	76.4	76.5	76.9	78.3	81.9	82.2	82.4	83.1	—
29	76.1	75.7	75.5	75.1	74.9	75.2	74.8	74.1	74.3	74.2	74.0	74.3	—
30	73.4	73.2	73.0	72.4	72.2	71.9	72.2	75.0	78.6	81.1	83.1	85.0	—
31	75.4	75.2	75.2	74.9	74.5	74.1	74.8	77.0	80.0	82.0	83.5	85.2	—
Hourly Means.	75.95	75.55	75.20	74.85	74.48	74.14	74.69	76.90	79.82	82.25	83.97	85.16	—

MAY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	87.0	86.2	86.0	85.8	84.6	83.2	82.0	81.0	79.7	79.0	78.3	78.0	80.31
2	86.3	86.7	85.8	82.2	80.3	79.0	77.7	77.6	77.2	77.0	76.5	76.0	79.64
3	86.2	85.9	85.6	85.3	83.8	81.4	81.2	80.0	79.0	78.2	77.5	77.7	79.52
4	87.0	87.4	77.5	77.1	77.5	77.0	75.9	75.8	75.6	75.5	75.2	74.9	78.60
5	87.4	81.4	80.5	80.0	78.5	77.9	77.0	76.6	76.0	75.6	75.6	75.0	78.08
6	84.0	83.6	83.0	82.5	81.9	80.9	80.0	79.5	79.1	78.7	78.0	77.5	79.22
7	86.8	86.6	84.0	83.2	82.4	81.0	79.2	78.4	77.5	77.5	77.1	76.6	79.94
8	85.2	86.1	84.9	83.0	82.0	81.2	80.0	78.0	77.0	76.8	77.0	76.2	79.10
9	84.9	86.3	86.0	85.2	84.2	82.8	81.4	80.3	79.2	78.3	78.0	77.8	79.85
10	83.4	84.1	83.8	83.3	82.6	81.8	80.4	79.6	78.4	78.0	77.1	76.5	79.19
11	85.1	85.1	83.0	83.5	82.7	81.8	80.6	79.6	78.5	77.9	77.2	76.4	79.58
12	87.6	87.8	87.1	83.2	82.5	81.1	80.1	78.5	76.5	75.5	75.2	75.1	79.26
13	87.4	86.8	87.5	85.7	84.8	81.4	79.0	77.2	76.9	76.6	76.0	75.6	79.24
14	87.3	87.3	86.6	80.0	76.2	75.6	75.7	75.5	75.5	75.4	75.2	74.7	78.49
15	80.8	81.0	81.3	82.0	81.7	80.8	79.6	78.8	78.0	77.0	76.3	75.2	77.23
16	85.8	86.5	86.0	84.5	83.7	79.0	77.0	76.7	76.4	75.9	75.9	75.7	78.74
17	86.2	87.5	86.0	85.4	84.2	82.9	81.6	80.6	79.2	79.0	78.3	77.6	79.86
18	86.2	87.3	87.5	86.5	84.5	82.5	80.5	79.0	78.1	77.8	77.0	76.4	80.03
19	88.4	88.6	88.3	86.7	85.0	83.6	82.0	80.0	78.5	77.4	77.0	76.5	80.14
20	87.7	86.9	86.3	85.7	84.6	83.0	82.0	80.8	79.3	78.2	77.7	77.0	80.25
21	88.1	88.5	88.1	87.3	85.5	83.6	82.0	80.9	79.7	78.9	78.0	77.8	80.80
22	88.2	89.0	89.0	88.0	86.2	84.5	82.4	81.1	79.6	78.2	78.0	77.4	80.92
23	88.4	89.0	89.0	87.6	86.6	84.6	82.0	81.0	79.5	78.3	77.6	77.2	81.04
24	88.2	88.8	88.0	86.8	85.6	83.8	82.5	81.6	80.4	79.4	78.6	78.0	81.30
25	81.0	80.7	84.2	83.6	82.5	80.7	76.7	76.1	75.9	75.7	75.1	74.7	78.85
26	84.6	82.0	82.7	82.6	82.0	81.0	80.0	79.3	78.5	77.6	77.2	76.3	78.38
27	84.2	83.7	83.8	83.8	83.8	82.0	80.6	79.2	78.0	77.6	77.1	76.6	79.27
28	82.8	83.0	82.8	81.4	81.6	81.2	80.0	78.5	77.7	77.0	76.2	76.0	79.26
29	75.0	75.2	75.7	76.2	76.2	75.5	75.0	74.5	74.1	73.8	73.8	73.6	74.87
30	85.8	85.1	84.6	84.1	83.0	81.9	80.7	79.4	79.2	76.5	76.0	75.6	78.46
31	85.9	86.1	85.9	81.0	81.6	80.2	80.0	78.1	77.1	76.4	76.0	75.0	78.96
Hourly Means.	85.58	85.49	84.85	83.65	82.65	81.22	79.83	78.81	77.91	77.25	76.76	76.28	79.30

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY.	1	940	940	947	956	938	938	930	867	812	774	737	694	
	2	949	949	940	948	940	948	940	902	837	741	718	719	—
	3	939	939	956	947	930	946	930	899	824	694	642	703	—
	4	917	924	932	932	940	939	940	852	791	736	721	679	—
	5	956	965	965	965	956	956	947	867	776	732	678	608	—
	6	947	956	957	947	947	947	939	916	856	801	767	761	—
	7	932	932	931	931	947	956	940	838	758	725	656	646	—
	8	924	931	940	939	947	947	947	891	846	834	774	703	—
	9	940	931	948	947	939	930	913	867	804	732	753	742	—
	10	907	891	923	931	939	947	931	916	877	820	786	780	—
	11	931	948	939	939	939	939	930	853	804	759	722	708	—
	12	905	930	939	938	921	929	921	883	810	703	676	632	—
	13	939	904	913	938	947	937	921	856	823	772	728	626	—
	14	931	931	939	939	939	939	931	837	806	742	679	661	—
	15	956	965	965	956	956	965	947	956	947	932	901	855	—
	16	930	947	947	956	956	955	938	907	856	816	728	716	—
	17	947	956	956	956	947	947	947	939	855	758	702	710	—
	18	916	907	915	915	939	930	930	915	875	771	703	671	—
	19	915	930	930	939	930	929	896	873	853	719	700	598	—
	20	931	915	923	922	922	930	913	890	802	704	625	579	—
	21	923	939	922	922	921	921	904	844	762	688	600	611	—
	22	874	898	905	913	929	929	896	844	748	624	582	592	—
	23	924	923	922	922	938	938	904	867	762	637	596	583	—
	24	916	932	932	940	948	939	915	869	806	722	631	571	—
	25	916	915	906	898	922	922	898	862	744	713	703	662	—
	26	956	956	956	956	956	955	947	905	853	790	753	741	—
	27	948	948	957	956	956	947	930	875	775	751	748	742	—
	28	940	948	957	957	966	957	949	908	829	793	815	795	—
	29	932	940	948	948	947	931	947	956	973	956	965	965	—
	30	965	965	964	973	964	964	937	914	815	749	719	684	—
	31	957	966	957	965	956	965	956	949	855	777	740	684	—
Hourly Means.		932	936	940	942	943	943	929	888	824	757	718	691	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MAY.	1	659	715	682	700	717	761	837	873	919	926	942	933	839
	2	650	652	668	729	789	831	884	876	907	900	916	923	844
	3	670	630	647	634	706	772	820	871	886	893	917	917	821
	4	685	660	883	907	916	924	931	940	940	931	957	956	872
	5	642	889	849	887	901	908	932	940	940	940	940	956	879
	6	770	741	767	773	800	843	864	870	886	902	917	933	867
	7	709	689	762	725	765	806	863	862	900	900	907	932	834
	8	678	694	697	753	800	836	879	884	891	899	907	932	853
	9	710	656	636	652	700	780	836	834	870	861	876	884	823
	10	692	688	693	719	780	822	872	879	917	933	932	932	843
	11	659	659	746	740	752	800	842	886	918	901	883	890	837
	12	637	650	673	760	772	836	841	821	882	914	914	914	825
	13	646	677	673	712	723	783	847	859	883	899	915	931	827
	14	659	635	677	855	923	939	940	948	957	948	957	965	862
	15	843	850	828	800	822	857	886	918	942	949	948	939	912
	16	688	664	689	722	734	801	883	899	932	940	931	940	853
	17	669	648	734	699	729	788	844	865	902	909	908	925	843
	18	649	604	611	663	763	830	872	839	868	884	883	899	823
	19	590	610	602	651	690	734	800	833	869	892	907	915	804
	20	606	639	656	693	743	802	807	842	886	908	907	916	811
	21	566	586	621	648	673	713	757	804	824	822	829	836	777
	22	566	581	605	607	683	716	759	806	855	885	893	907	775
	23	585	575	587	635	643	695	771	790	833	869	901	892	779
	24	578	551	643	632	672	754	815	844	864	886	901	908	799
	25	805	880	756	782	838	842	924	931	940	940	956	947	858
	26	730	721	731	809	837	836	871	886	918	933	932	948	870
	27	750	796	776	790	783	792	842	886	917	925	932	940	861
	28	794	788	766	813	828	858	903	926	933	932	932	940	884
	29	956	947	948	923	923	931	939	956	956	965	965	965	949
	30	648	725	743	742	788	837	872	909	918	940	940	948	859
	31	669	663	675	858	851	888	903	893	900	915	906	939	866
Hourly Means.		683	692	710	742	776	817	859	876	902	911	918	926	844

DIRECTION OF THE WIND.

MAY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	C	C	C	NE	ENE	SE	ESE	SE	ENE
2	C	C	C	C	C	C	C	C	E	ENE	ENE	NNE
3	C	C	C	C	C	C	C	C	SSW	SSW	WNW	NNE
4	C	C	C	C	C	C	N	E	SE	SSE	ESE	ENE
5	C	C	C	C	C	C	C	C	NW	WNW	WNW	NW
6	C	C	C	C	C	C	NW	C	ENE	E	E	ENE
7	C	C	C	C	C	C	E	E	SE	E	E	ENE
8	C	C	C	C	C	C	C	C	SE	E	E	ESE
9	C	C	C	C	C	C	NW	C	SW	SSE	SE	ENE
10	C	C	C	C	ENE	C	C	C	S	WSW	WSW	N
11	C	C	C	C	C	C	C	C	SE	E	E	NE
12	C	C	C	C	C	C	N	C	N	N	NW	NW
13	C	C	C	C	C	C	C	C	SSW	S	SSW	E
14	C	C	C	C	C	C	C	C	W	NW	NNE	NE
15	C	C	C	C	C	C	C	C	C	SW	SE	E
16	C	C	C	C	C	C	ENE	E	E	ESE	ESE	ESE
17	C	C	C	C	C	C	C	C	SSW	E	SE	ESE
18	C	C	C	C	C	C	E	C	ESE	ESE	ESE	E
19	C	C	C	C	C	C	ENE	C	ENE	ESE	ESE	ENE
20	C	C	C	C	C	C	C	C	E	SSE	SE	ESE
21	C	E	E	E	C	C	E	C	SSE	ESE	E	ESE
22	C	C	C	C	C	C	C	C	SSE	SE	SE	E
23	C	C	C	C	C	ESE	ESE	ESE	E	E	E	E
24	C	C	C	C	C	C	SE	C	SE	E	ESE	ESE
25	C	C	C	C	C	ENE	ENE	ENE	SE	SE	E	SSE
26	C	C	C	C	C	C	WSW	WSW	WSW	WSW	SSW	SE
27	C	C	C	C	C	C	E	ESE	ESE	ESE	ESE	ENE
28	C	C	C	C	C	C	C	ESE	SE	ENE	E	ENE
29	C	C	C	C	SE	SE	N	C	N	N	N	N
30	C	C	C	C	C	C	E	E	ESE	ESE	E	E
31	C	C	C	C	C	C	C	C	SSW	SE	SE	S

MAY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	ENE	NE	NE	NE	NE	NE	C	C	C	C	C	C
2	N	NNE	NNE	SW	SW	SW	SSW	SSW	C	C	C	C
3	NNE	N	N	NNE	N	N	C	N	C	C	C	C
4	NE	NE	WSW	WSW	C	SW	SW	C	C	C	C	C
5	NNE	N	NW	NW	NW	NW	C	NW	NW	C	C	C
6	ENE	ENE	ENE	E	E	E	C	C	C	C	C	C
7	NNE	NE	NE	NE	ENE	ENE	SSE	S	C	C	C	C
8	ENE	NE	NNE	NNE	C	C	N	N	NW	NW	C	C
9	ENE	NE	NE	NE	NE	NE	C	NE	NE	C	C	C
10	NE	NNE	NNE	NE	NNE	NNE	NE	C	C	NE	C	C
11	NE	NNE	NNE	NE	N	C	C	C	C	N	C	C
12	NNE	N	N	NW	C	C	N	E	C	C	C	C
13	E	NE	NE	N	N	W	W	C	C	C	C	C
14	NE	NE	NNE	WNW	SW	C	C	C	C	C	C	C
15	ENE	C	C	C	E	C	C	C	C	C	C	C
16	E	NE	NE	NE	SSW	SSW	SSW	C	C	C	C	C
17	E	E	NE	ESE	E	E	E	C	C	C	C	C
18	E	E	ENE	ENE	ENE	C	ENE	ENE	ENE	C	C	C
19	ENE	ENE	ENE	NE	ENE	ENE	C	ENE	E	E	E	C
20	E	E	E	E	E	E	E	E	C	C	C	C
21	ENE	E	ENE	E	ENE	E	E	E	C	E	E	E
22	ENE	ENE	ENE	E	ENE	E	E	E	C	C	C	E
23	E	E	E	SE	SE	SE	SE	SE	C	C	SE	SE
24	E	SE	NE	ENE	E	ENE	C	ENE	C	C	C	C
25	E	E	NE	NE	NNE	W	W	C	C	C	C	C
26	E	ENE	ENE	E	ESE	ESE	C	C	C	C	C	C
27	ENE	NE	NE	NE	ENE	ENE	ENE	C	C	C	C	C
28	NNE	NE	NNE	SE	C	C	C	C	C	SE	C	C
29	N	ENE	ENE	ENE	E	E	E	C	C	C	C	C
30	ESE	NE	NE	NE	NE	C	C	C	C	C	C	C
31	C	W	NW	NW	C	C	C	C	C	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	6.4	6.4	7.2	8.0	—
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	5.6	—
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	4.8	—
4	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.0	3.2	4.0	6.4	—
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	1.6	2.4	—
6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.2	9.7	12.1	12.9	—
7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	7.2	12.1	14.5	14.5	—
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.9	11.3	8.0	—
9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	0.8	0.8	2.4	—
10	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.6	0.8	0.8	1.6	—
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	4.8	8.9	—
12	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	0.8	2.4	4.0	—
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	0.8	1.6	—
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	4.0	—
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.0	4.8	—
16	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6	4.0	3.2	—
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.4	6.4	5.6	—
18	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	3.2	8.0	11.3	13.7	—
19	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	8.0	10.5	13.7	—
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4	11.3	14.5	—
21	0.0	0.8	3.2	0.8	0.0	0.0	1.6	0.0	2.4	8.9	9.7	11.3	—
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.2	10.5	12.9	—
23	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	5.6	9.7	11.3	11.3	—
24	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	2.4	4.0	6.4	6.4	—
25	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.8	4.8	6.4	4.8	4.0	—
26	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	1.6	1.6	2.4	3.2	—
27	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	6.4	8.0	5.6	8.9	—
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.2	7.2	2.4	2.4	—
29	0.0	0.0	0.0	0.0	0.8	1.6	4.0	0.0	1.6	3.2	3.2	0.8	—
30	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	7.2	8.0	14.5	8.9	—
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	—
Hourly Means.	0.00	0.03	0.10	0.03	0.08	0.10	0.77	0.52	2.94	4.89	6.05	6.82	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	9.7	10.5	8.0	6.4	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.91
2	8.9	8.9	7.2	4.8	1.6	3.2	1.6	0.8	0.0	0.0	0.0	0.0	2.04
3	8.0	8.0	8.9	6.4	1.6	0.8	0.0	0.8	0.0	0.0	0.0	0.0	1.90
4	8.9	11.3	4.8	0.8	0.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	2.11
5	6.4	5.6	4.8	1.6	1.6	0.8	0.0	0.8	0.8	0.0	0.0	0.0	1.30
6	14.5	13.7	10.5	6.4	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	3.76
7	9.7	12.9	20.9	12.9	6.4	0.8	1.6	1.6	0.0	0.0	0.0	0.0	4.93
8	6.4	12.1	15.3	8.0	0.0	0.0	0.8	2.4	1.6	0.8	0.0	0.0	3.28
9	4.8	4.0	8.0	8.0	6.4	1.6	0.0	0.8	1.6	0.0	0.0	0.0	1.73
10	2.4	4.0	4.0	4.0	3.2	1.6	0.8	0.0	0.0	0.8	0.0	0.0	1.13
11	10.5	9.7	9.7	8.0	1.6	0.0	0.0	0.0	0.0	0.8	0.0	0.0	2.42
12	4.0	8.0	7.2	3.2	0.0	0.0	1.6	0.8	0.0	0.0	0.0	0.0	1.43
13	3.2	6.4	6.4	6.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	1.27
14	6.4	11.3	9.7	5.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.84
15	1.6	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53
16	4.8	6.4	6.4	9.7	4.8	8.0	0.8	0.0	0.0	0.0	0.0	0.0	2.17
17	9.7	12.1	8.0	8.0	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	2.71
18	16.1	16.1	15.3	11.3	4.8	0.0	1.6	0.8	0.8	0.0	0.0	0.0	4.36
19	11.3	10.5	15.3	13.7	9.7	1.6	0.0	1.6	1.6	0.8	0.8	0.0	4.26
20	10.5	11.3	12.1	10.5	6.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0	3.76
21	11.3	10.5	12.9	15.3	11.3	6.4	4.8	1.6	0.0	0.8	1.6	0.8	4.83
22	12.1	12.9	11.3	12.1	9.7	5.6	4.0	0.8	0.0	0.0	0.0	0.8	4.30
23	11.3	10.5	9.7	11.3	8.9	3.2	0.8	0.8	0.0	0.0	0.8	0.8	4.17
24	8.0	8.9	9.7	10.5	8.0	3.2	0.0	0.8	0.0	0.0	0.0	0.0	2.91
25	4.8	4.0	6.4	7.2	1.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0	2.23
26	4.8	6.4	4.0	4.0	2.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.50
27	5.6	5.6	4.8	6.4	4.8	2.4	1.6	0.0	0.0	0.0	0.0	0.0	2.60
28	5.6	6.4	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.83
29	1.6	1.6	1.6	3.2	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	1.33
30	5.6	8,0	8.0	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.88
31	0.0	0.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30
Hourly Means.	7.37	8.34	8.40	6.92	3.86	1.86	0.85	0.49	0.21	0.15	0.10	0.08	2.54

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY.	1	4	5	6	4	4	6	4	2	3	4	4	4	—
	2	4	2	2	2	3	2	3	2	3	4	5	7	—
	3	5	3	5	7	7	6	5	3	2	2	3	6	—
	4	6	3	6	7	6	7	6	4	4	6	7	5	—
	5	2	1	2	7	6	7	2	1	6	4	4	6	—
	6	4	7	9	9	8	9	9	9	8	8	9	9	—
	7	5	4	5	3	5	5	4	3	3	5	4	7	—
	8	6	4	3	6	3	9	10	10	10	10	9	10	—
	9	7	7	7	6	7	7	3	3	2	4	9	8	—
	10	9	7	9	8	6	5	1	10	9	10	10	10	—
	11	2	2	3	3	4	6	2	4	4	4	5	5	—
	12	2	2	1	1	2	3	2	1	1	2	2	3	—
	13	3	3	2	2	1	3	3	1	1	0	1	3	—
	14	2	2	3	2	2	3	3	2	3	4	7	9	—
	15	4	3	1	1	6	9	10	10	10	10	10	10	—
	16	3	2	2	1	1	3	2	3	3	3	5	5	—
	17	3	5	3	3	4	4	6	5	7	6	9	8	—
	18	3	2	1	1	2	4	9	9	9	7	5	6	—
	19	3	4	1	2	2	1	6	7	6	6	6	7	—
	20	3	3	3	3	6	10	3	4	5	3	6	3	—
	21	3	2	2	3	3	4	2	1	1	2	1	2	—
	22	3	3	2	1	3	4	3	2	1	2	3	3	—
	23	1	1	1	0	2	3	1	0	0	0	2	2	—
	24	9	6	7	7	5	4	3	6	3	3	4	7	—
	25	6	6	5	6	6	7	3	1	0	5	7	9	—
	26	5	6	4	3	3	5	6	3	4	6	7	7	—
	27	2	3	3	2	2	3	3	2	4	8	8	9	—
	28	4	3	9	3	9	10	10	10	10	10	10	10	—
	29	10	10	7	9	10	10	10	10	10	10	10	10	—
	30	9	10	7	2	2	2	4	6	4	3	1	6	—
	31	9	10	10	9	7	6	2	3	3	3	4	4	—
Hourly Means.		4.5	4.2	4.2	4.0	4.4	5.4	4.5	4.4	4.5	5.0	5.7	6.5	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MAY.	1	5	6	4	2	1	2	4	5	5	3	2	3	3.8
	2	1	1	1	10	9	8	10	7	8	3	2	5	4.3
	3	7	7	6	5	5	6	1	1	0	0	9	7	4.5
	4	7	6	10	10	10	10	10	10	9	4	3	3	6.6
	5	7	10	10	10	10	10	10	10	9	9	8	8	6.6
	6	7	8	8	9	9	9	9	9	10	9	7	4	8.2
	7	7	8	7	7	8	10	10	9	10	10	9	9	6.5
	8	8	8	4	9	9	10	10	10	9	9	10	9	8.1
	9	7	4	3	3	2	3	2	7	8	6	5	3	5.1
	10	9	10	9	8	8	8	8	6	6	5	5	3	7.5
	11	3	4	6	4	6	7	3	2	1	2	2	2	3.6
	12	4	3	2	9	2	9	10	10	3	2	2	4	3.4
	13	6	7	4	5	8	2	1	1	1	1	1	1	2.5
	14	7	7	9	10	10	10	8	9	7	4	2	2	5.3
	15	9	10	10	10	9	9	4	8	6	4	4	4	7.1
	16	6	6	6	6	9	10	10	10	6	3	3	2	4.6
	17	7	6	5	7	9	9	6	7	7	7	7	6	6.1
	18	8	6	5	8	7	8	9	8	6	4	3	2	5.5
	19	5	5	4	4	4	9	8	6	6	5	6	5	4.9
	20	8	9	9	8	8	9	5	6	6	4	3	4	5.5
	21	1	1	1	0	1	3	1	1	0	3	3	3	1.8
	22	2	3	3	1	2	1	0	1	0	1	1	0	1.9
	23	4	4	7	5	3	2	10	9	9	9	9	7	3.8
	24	3	5	6	6	7	5	8	7	6	7	6	6	5.7
	25	9	8	4	7	8	10	10	7	3	3	3	3	5.7
	26	10	10	7	8	10	10	9	8	3	2	1	2	5.8
	27	10	10	10	9	9	6	3	4	1	1	7	3	5.1
	28	10	9	10	10	9	5	6	3	2	2	2	9	7.3
	29	10	10	10	10	10	10	7	6	4	6	9	9	9.0
	30	7	7	8	8	8	9	6	6	8	10	10	10	6.4
	31	8	6	10	10	6	10	9	10	2	3	2	3	6.2
Hourly Means.		6.5	6.6	6.4	7.0	7.0	7.4	6.7	6.5	5.2	4.5	4.7	4.5	5.43

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY.	1	10.4	12.4	10.4	8.9	8.5	8.0	8.5	6.5	3.0	2.5	1.5	1.5	—
	2	12.9	10.4	9.4	6.5	5.5	6.5	8.0	7.5	4.5	2.0	3.0	3.0	—
	3	14.9	13.4	17.9	12.9	14.9	11.9	21.4	13.9	10.4	5.0	5.0	2.0	—
	4	13.4	13.4	13.4	8.5	8.0	14.9	22.4	8.9	5.5	4.0	3.0	2.5	—
	5	10.9	14.9	14.4	11.4	9.9	8.5	15.4	12.4	5.5	4.5	5.0	3.0	—
	6	10.4	9.9	7.0	6.5	5.5	11.4	12.4	9.9	7.5	3.0	2.5	2.5	—
	7	14.4	16.9	8.0	11.9	12.9	12.4	13.9	8.0	5.0	3.0	2.5	2.5	—
	8	12.4	16.4	13.9	14.9	14.4	16.9	8.5	13.4	6.5	6.0	3.0	3.5	—
	9	11.9	16.9	20.4	11.9	11.9	13.4	14.9	11.4	7.0	3.0	1.5	2.5	—
	10	10.9	9.4	8.9	9.4	9.4	9.9	14.9	8.5	7.5	5.5	3.0	1.5	—
	11	10.9	11.4	12.4	10.4	9.4	9.9	15.4	11.4	8.9	3.5	4.5	3.5	—
	12	17.4	18.9	16.9	13.9	15.4	10.9	13.9	—	—	—	—	—	—
	13	—	—	—	—	—	—	—	7.5	6.0	3.5	3.0	2.0	—
	14	12.4	14.9	11.9	11.9	9.9	9.9	13.4	9.9	5.0	1.5	1.0	1.0	—
	15	16.9	14.9	12.9	17.4	13.9	—	11.4	7.0	6.5	8.9	4.5	3.0	—
	16	6.5	9.9	14.9	16.9	8.5	12.9	17.9	8.0	5.0	3.5	3.5	4.0	—
	17	8.9	15.9	12.4	11.4	11.9	12.4	11.4	15.4	7.5	3.0	2.5	3.0	—
	18	12.9	11.4	13.9	12.4	10.9	16.9	9.4	7.5	6.0	3.5	3.5	2.0	—
	19	8.5	10.4	12.4	9.9	8.9	8.5	8.9	8.5	9.4	3.0	2.5	2.0	—
	20	12.9	10.9	12.4	14.4	8.9	8.5	—	10.9	8.9	4.5	3.0	2.5	—
	21	8.5	10.4	8.9	7.5	7.5	6.5	10.9	8.5	4.0	3.0	1.0	2.0	—
	22	9.9	13.4	14.9	13.9	9.9	8.0	9.9	8.5	7.0	3.5	2.5	2.0	—
	23	7.5	13.4	12.9	8.0	8.9	10.9	11.9	9.4	5.5	2.5	3.0	2.0	—
	24	8.0	8.9	9.4	9.4	10.4	13.4	12.4	6.5	4.5	2.5	2.0	1.5	—
	25	16.4	15.9	14.4	10.4	14.9	11.9	11.4	7.5	3.5	2.0	3.0	0.5	—
	26	11.9	13.9	15.9	14.4	11.9	13.4	15.9	9.4	10.4	6.0	3.5	P N	—
	27	14.4	13.4	13.9	12.4	9.9	11.4	—	8.9	5.0	4.5	4.5	3.0	—
	28	9.9	8.5	10.4	11.4	13.4	12.9	17.9	9.9	6.0	4.5	6.0	4.0	—
	29	16.4	12.9	14.9	13.9	14.9	7.5	P N	P N	P N	P N	P N	— 14.9	—
	30	16.4	19.9	19.9	19.4	22.9	19.4	13.9	8.9	3.5	2.0	2.5	2.5	—
	31	6.5	8.5	9.4	7.5	7.5	9.9	24.9	13.4	3.5	1.5	2.5	2.0	—
Hourly Means.		11.9	13.1	13.0	11.7	11.0	11.3	13.7	9.6	6.2	3.6	3.1	1.8	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MAY.	1	2.0	2.0	3.0	2.5	3.5	6.0	11.4	10.4	13.4	16.9	10.4	8.9	7.2
	2	2.0	3.5	5.0	5.0	7.5	10.4	12.4	11.4	10.4	10.9	15.9	11.4	7.7
	3	2.0	3.0	3.5	4.0	4.0	7.0	14.4	16.9	14.4	17.4	14.4	12.9	10.7
	4	3.0	— 2.5	P N	P N	P N	P N	2.0	7.0	7.5	9.4	9.9	8.9	8.2
	5	5.0	N	19.9	N	P	17.4	11.9	10.9	10.9	10.4	11.4	9.9	10.6
	6	2.0	2.0	3.0	4.0	5.5	8.9	11.4	14.4	13.4	13.9	13.4	10.4	8.0
	7	4.0	4.5	— 10.4	— 6.0	P	— 3.5	12.4	11.4	9.9	16.9	— 17.9	13.4	6.4
	8	3.5	3.0	3.0	— 0.5	P	— 0.5	8.9	12.9	10.9	11.9	12.9	12.4	9.1
	9	2.0	2.5	2.0	2.5	4.0	9.4	19.4	11.9	10.9	8.5	11.4	9.9	9.2
	10	4.0	4.0	4.0	3.5	7.0	12.4	8.5	14.4	8.0	8.9	11.9	9.4	8.1
	11	3.0	2.5	3.5	3.5	6.0	11.4	8.9	12.9	8.0	14.9	14.9	17.4	9.1
	12	—	—	—	—	—	—	—	—	—	—	—	—	15.3
	13	1.5	1.5	2.5	2.5	4.5	27.4	16.4	8.9	10.4	10.9	10.4	11.4	7.7
	14	2.5	5.0	8.5	P N	P N	P N	P N	9.4	14.4	15.9	14.9	13.9	9.4
	15	4.0	3.5	4.0	4.0	5.0	5.0	7.0	7.5	5.5	6.0	7.5	4.5	7.9
	16	3.5	4.0	3.5	3.5	— 4.5	5.0	— 5.0	N	7.5	8.9	7.5	8.5	6.7
	17	3.0	2.5	1.5	1.5	4.5	8.5	9.9	10.9	13.9	9.9	9.9	9.9	8.4
	18	4.0	4.5	0.0	3.5	8.9	8.5	15.9	8.5	8.5	8.9	8.9	11.4	8.4
	19	2.0	3.5	2.5	2.0	10.4	10.4	12.4	8.5	7.5	8.0	8.5	8.5	7.4
	20	0.0	3.0	2.5	2.0	3.0	3.0	7.0	8.9	11.9	10.9	8.9	7.5	7.2
	21	1.5	2.5	2.0	1.0	— 1.5	3.5	6.0	7.5	8.5	8.9	8.9	7.5	5.6
	22	2.5	2.5	— 1.0	1.0	2.5	3.5	7.0	10.4	12.4	8.9	8.5	9.4	7.1
	23	2.0	1.0	1.0	2.0	—	9.9	17.9	9.4	7.0	7.0	6.5	8.0	7.3
	24	1.5	2.0	— 1.5	1.5	1.5	4.5	3.5	10.9	10.4	10.9	9.4	12.4	6.5
	25	N	5.0	4.5	5.5	17.4	14.9	P	9.4	12.4	13.4	12.9	11.4	9.9
	26	P N	P	19.9	6.0	7.0	5.5	7.5	8.5	8.0	12.4	12.9	14.9	10.9
	27	4.0	3.0	4.0	4.5	4.0	6.5	10.9	11.4	14.9	12.9	15.9	11.4	8.9
	28	4.5	— 9.9	23.9	18.9	7.5	9.9	14.9	10.4	12.4	12.4	12.4	12.9	10.2
	29	4.0	5.5	9.9	7.0	6.0	8.0	8.5	12.4	10.9	20.4	17.4	17.9	10.2
	30	2.5	3.5	3.5	4.0	5.0	5.5	7.5	8.0	0.5	N	N	3.0	8.8
	31	2.0	3.0	— 3.0	N	9.9	9.4	5.0	9.9	10.4	13.4	15.4	20.9	8.4
Hourly Means.		2.8	2.5	4.3	3.4	5.4	8.1	9.8	10.5	10.2	11.7	10.9	11.0	8.36

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	8.84	8.66	8.34	8.20	8.21	8.28	8.50	8.71	8.62	8.34	7.91	7.54	—
	2	8.74	8.28	7.86	8.01	7.91	8.44	8.89	9.39	9.60	9.41	9.10	8.33	—
	3	8.15	7.85	7.39	7.54	7.70	7.85	8.64	8.95	9.18	9.13	8.81	8.04	—
	4	7.89	7.32	7.04	7.16	7.58	7.85	8.40	8.85	8.84	8.71	8.41	7.83	—
	5	8.85	8.53	8.09	8.16	8.68	9.05	9.57	9.76	10.04	9.96	9.62	8.91	—
	6	9.03	8.45	8.15	8.11	8.27	8.44	8.95	9.50	9.86	9.51	9.08	8.67	—
	7	9.50	9.09	8.50	8.46	8.78	9.20	9.68	10.38	10.31	10.10	9.80	9.29	—
	8	9.94	9.50	9.30	9.05	9.08	9.36	9.89	10.27	10.21	10.00	9.63	9.03	—
	9	9.50	9.09	8.65	8.61	8.74	8.97	9.49	10.07	10.46	10.16	9.87	9.39	—
	10	8.84	8.36	8.29	8.41	8.58	8.80	9.27	9.47	9.71	9.48	9.02	8.30	—
	11	8.84	8.43	8.00	7.94	8.03	8.21	8.49	8.84	8.78	8.74	8.22	7.69	—
	12	8.55	8.34	8.00	8.00	8.11	8.29	8.66	9.00	9.21	9.06	8.84	8.32	—
	13	9.30	8.98	8.82	8.99	8.90	9.23	9.66	10.35	10.67	10.61	10.32	9.70	—
	14	9.56	9.12	9.15	8.90	9.03	9·20	9.92	10.31	10.20	10.04	9.57	8.92	—
	15	8.71	8.18	7.54	7.52	8.05	8.39	8.40	8.66	8.80	8.46	8.12	7.77	—
	16	8.78	8.64	8.49	8.45	8.86	8.96	9.34	9.73	10.05	9.94	9.38	8.61	—
	17	9.36	8.98	8.74	8.80	8.97	9.24	9.52	10.07	10.32	10.10	9.68	8.85	—
	18	9.70	9.15	9.04	9.11	9.22	9.62	10.39	10.87	10.90	10.75	10.52	9.78	—
	19	8.98	8.65	8.44	8.16	8.48	8.71	9.22	9.86	9.81	9.54	9.06	8.43	—
	20	8.96	8.38	8.23	8.24	8.06	8.24	8.64	9.16	9.40	9.14	8.85	8.14	—
	21	9.30	8.93	8.70	8.59	8.91	8.94	9.06	9.49	9.69	9.71	9.57	9.35	-
	22	9.78	9.15	9.06	9.03	9.20	9.37	9.51	10.05	10.09	9.89	9.46	8.82	—
	23	9.50	9.45	9.25	9.30	9.66	9.16	10.11	10.81	10.61	10.28	9.91	9.36	—
	24	9.03	8.75	8.60	8.46	8.89	8.96	9.41	9.71	9.79	9.78	9.58	8.77	—
	25	9.08	8.90	8.43	8.20	8.42	8.70	8.76	9.06	9.14	9.10	8.79	8.43	—
	26	9.66	9.39	8.99	9.01	9.14	9.15	9.47	9.89	10.10	10.04	9.85	9.20	—
	27	10.14	9.90	9.60	9.61	9.75	9.93	10.32	10.61	10.73	10.31	10.07	9.88	—
	28	9.90	9.75	9.45	9.28	9.35	9.38	10.17	10.76	10.88	10.79	10.59	9.91	—
	29	9.95	9.79	9.49	9.41	9.70	9.82	10.34	10.59	10.60	10.44	9.92	9.61	—
	30	10.26	10.16	9.86	9.86	9.91	10.21	10.77	10.99	11.08	10.77	10.38	9.62	—
Hourly Means.		9.22	8.87	8.58	8.55	8.74	8.93	9.38	9.81	9.92	9.74	9.40	8.82	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	7.33	7.10	6.78	6.68	6.72	6.86	7.66	8.41	8.83	9.13	9.13	8.98	8.07
	2	7.42	6.82	6.50	6.40	6.66	6.84	7.38	7.87	8.23	8.44	8.45	8.31	8.05
	3	7.41	6.72	6.52	6.61	6.68	6.94	7.17	7.79	8.48	8.75	8.58	8.39	7.89
	4	7.39	6.98	6.66	6.57	7.01	7.67	8.22	8.80	9.26	9.53	9.45	9.29	8.03
	5	8.67	7.78	7.58	7.48	7.84	8.46	8.96	9.13	9.74	9.70	9.49	9.36	8.89
	6	8.07	7.65	7.25	7.10	7.30	7.58	8.48	8.87	9.41	9.68	9.78	9.69	8.62
	7	8.45	7.80	7.48	7.57	8.00	8.47	9.11	9.75	10.28	10.66	10.48	10.24	9.22
	8	8.35	7.79	7.33	7.27	7.51	7.98	8.54	9.13	10.02	10.36	10.13	10.02	9.15
	9	8.92	8.23	7.78	7.62	7.78	8.24	8.51	8.98	9.33	9.64	9.73	9.37	9.05
	10	7.72	7.10	6.87	6.75	6.97	7.13	7.76	8.17	8.77	9.15	9.14	9.16	8.38
	11	6.83	6.08	5.70	5.68	5.77	6.08	6.93	7.71	8.30	8.66	8.69	8.71	7.72
	12	7.80	7.24	6.87	6.80	7.10	7.64	8.08	8.69	9.19	9.48	9.41	9.38	8.34
	13	8.96	8.31	7.77	7.67	7.85	8.37	8.60	9.14	9.65	9.88	10.15	9.96	9.24
	14	8.44	7.77	7.32	7.27	7.40	7.62	7.87	8.38	9.09	9.22	9.14	8.84	8.85
	15	7.43	7.02	6.82	6.73	6.68	7.13	8.26	8.69	9.10	9.31	9.42	9.35	8.11
	16	7.84	7.24	7.02	6.81	7.22	7.67	8.63	9.22	9.51	9.95	9.75	9.60	8.74
	17	8.42	7.96	7.69	7.59	7.76	8.36	8.61	9.07	9.63	9.81	9.84	9.77	9.05
	18	8.95	8.30	7.87	7.87	8.26	8.53	8.81	9.17	9.63	9.93	9.76	9.69	9.41
	19	7.78	7.31	6.83	6.81	7.01	7.61	8.11	8.89	9.34	9.64	9.53	9.08	8.55
	20	7.57	7.33	6.93	7.08	7.68	8.34	9.03	9.88	10.26	9.84	9.90	10.08	8.64
	21	8.96	8.08	7.54	7.84	8.15	8.48	9.43	9.90	10.34	10.79	10.60	10.20	9.19
	22	8.10	7.62	7.23	7.15	7.47	7.82	8.34	8.94	9.45	9.69	9.92	9.94	8.96
	23	8.95	8.36	7.91	7.76	7.79	7.95	8.57	8.92	9.56	9.85	9.73	9.79	9.27
	24	8.57	8.13	7.73	7.77	7.92	8.16	8.62	8.94	9.59	9.56	9.59	9.39	8.90
	25	8.33	7.77	7.53	7.57	7.68	7.73	8.41	9.02	9.43	9.73	9.79	9.95	8.66
	26	8.57	8.36	8.21	8.16	7.95	8.18	8.76	9.36	9 76	9.98	9.84	10.04	9.21
	27	9.42	8.67	8.42	8.27	8.52	8.78	9.35	9.72	10.27	10.63	10.26	10.29	9.73
	28	9.51	8.67	8.47	8.42	8.66	9.37	9.79	10.53	10.78	10.98	10.73	10.57	9.86
	29	9.14	8.73	8.47	8.23	8.48	8.80	9.38	10.04	10.83	11.04	10.78	10.81	9.77
	30	9.38	9.07	8.57	8.49	8.70	9.06	9.72	10.23	10.58	10.69	10.50	10.56	9.98
Hourly Means.		8.29	7.73	7.39	7.33	7.55	7.93	8.50	9.04	9.55	9.79	9.72	9.63	8.85

STANDARD THERMOMETER.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	74.4	73.8	73.4	73.0	73.0	72.7	73.5	75.6	79.5	82.0	83.7	85.4	—
	2	78.0	77.2	76.7	75.7	74.7	74.0	74.2	75.6	77.2	80.8	82.1	84.0	—
	3	78.1	78.0	77.4	77.2	76.5	76.1	76.6	77.6	79.0	80.1	81.6	82.9	—
	4	77.8	77.2	76.6	76.8	76.6	76.2	76.2	78.7	81.5	83.7	85.0	86.4	—
	5	76.7	75.9	75.2	75.0	74.4	74.1	74.7	76.7	79.3	82.0	83.8	84.0	—
	6	74.9	74.1	73.9	73.3	73.1	72.8	73.8	77.2	80.6	82.6	83.4	85.0	—
	7	77.2	76.9	76.1	75.6	75.4	75.0	74.7	77.0	80.8	82.8	84.6	84.8	—
	8	75.7	75.0	74.4	74.3	74.0	73.7	75.0	77.0	81.3	84.0	85.3	86.1	—
	9	75.5	75.3	75.0	74.5	74.0	73.2	73.7	76.1	79.6	83.1	85.5	86.8	—
	10	75.6	75.1	74.7	74.0	73.5	73.1	73.3	75.5	80.0	82.6	84.9	86.2	—
	11	77.0	76.3	75.7	75.0	74.0	73.0	73.0	76.0	79.8	83.1	85.0	86.8	—
	12	76.5	76.2	75.7	75.5	75.2	74.7	75.1	76.8	80.0	83.8	85.8	85.4	—
	13	77.4	76.5	76.1	75.7	75.2	74.9	75.3	77.8	81.6	84.0	85.6	86.3	—
	14	76.2	75.4	74.5	74.2	74.0	73.6	74.1	76.9	80.0	83.2	85.2	86.9	—
	15	77.3	77.2	75.6	75.5	75.0	74.8	75.0	77.2	79.5	82.3	84.5	86.4	—
	16	74.7	74.3	74.3	74.3	74.1	73.9	74.4	75.3	76.9	79.6	81.0	82.7	—
	17	74.1	73.8	73.6	73.6	73.2	73.0	73.0	74.2	77.4	82.1	84.5	85.9	—
	18	75.5	74.9	74.6	74.1	73.9	73.1	73.3	75.8	79.9	83.2	85.5	86.9	—
	19	76.5	76.0	75.7	75.5	74.8	74.0	74.1	76.6	81.0	84.0	85.6	86.3	—
	20	76.3	76.1	75.7	75.5	75.0	75.0	75.5	77.8	80.0	82.5	84.0	85.5	—
	21	74.7	74.5	74.3	74.0	73.5	73.3	73.3	75.4	77.0	79.4	81.1	81.3	—
	22	75.7	75.4	75.1	74.7	74.3	73.8	74.0	75.6	77.9	81.7	84.4	86.3	—
	23	75.7	75.3	75.5	75.2	75.0	74.6	75.0	76.5	78.1	81.5	84.0	85.6	—
	24	77.0	76.2	75.4	74.8	75.0	75.0	75.2	78.1	81.2	83.2	84.6	86.5	—
	25	75.7	75.0	74.8	74.1	73.6	73.0	73.6	76.2	80.6	82.9	84.3	86.2	—
	26	75.2	74.5	73.7	73.1	72.8	72.2	73.0	76.0	80.1	83.3	85.7	87.0	—
	27	76.5	76.1	75.6	75.0	74.4	73.9	73.9	77.2	81.0	83.8	85.6	87.3	—
	28	76.7	75.9	75.5	75.1	74.7	73.8	74.3	76.8	80.8	83.2	85.1	86.7	—
	29	75.8	74.5	74.0	73.4	72.7	72.3	72.3	75.0	79.3	82.7	84.5	86.1	—
	30	74.5	74.2	74.0	73.8	73.8	73.6	74.2	75.3	78.0	81.2	83.2	84.0	—
Hourly Means.		76.10	75.56	75.09	74.72	74.31	73.88	74.24	76.45	79.63	82.48	84.30	85.59	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	85.6	85.5	84.8	84.6	83.3	82.1	80.6	79.5	79.2	79.0	79.0	78.5	79.24
	2	85.4	85.4	85.2	84.7	83.8	82.6	81.0	80.2	79.0	79.0	79.2	78.9	79.78
	3	84.0	85.3	83.2	82.8	81.0	80.8	80.5	79.6	79.1	78.4	78.1	78.1	79.67
	4	86.0	86.5	86.7	85.7	85.0	83.3	81.6	79.8	78.8	78.0	77.3	77.0	80.77
	5	86.7	85.8	85.2	84.5	83.1	78.7	77.7	77.0	76.4	76.0	75.8	75.5	78.93
	6	85.2	84.5	84.0	85.2	84.4	82.0	81.0	79.7	79.0	78.6	78.1	77.8	79.34
	7	84.9	85.2	85.0	84.3	83.8	82.4	81.2	80.0	79.5	79.1	77.4	75.7	79.98
	8	87.1	87.9	86.7	85.7	84.4	82.4	81.4	80.6	79.3	78.1	77.1	76.3	80.12
	9	88.0	88.4	87.3	86.2	85.0	83.0	81.6	80.0	78.6	77.5	77.1	76.3	80.05
	10	87.1	88.2	86.5	85.6	84.5	83.0	81.7	80.2	79.1	78.6	77.7	77.5	79.93
	11	88.0	89.0	88.8	87.2	86.0	83.8	81.6	80.0	79.0	78.2	77.7	77.0	80.46
	12	86.4	87.5	88.1	87.8	85.6	83.4	81.5	80.5	79.1	78.4	78.4	77.7	80.63
	13	87.3	88.1	87.8	87.0	85.2	83.3	81.8	80.4	79.4	79.4	79.1	78.0	80.97
	14	87.5	88.4	87.5	87.2	85.5	83.7	82.0	80.8	80.2	79.8	79.0	78.2	80.58
	15	86.7	86.5	85.0	84.2	83.2	82.0	81.0	79.5	78.2	75.5	75.0	74.9	79.67
	16	84.4	84.8	84.4	84.0	82.8	81.9	80.1	77.2	75.6	74.9	74.6	74.7	78.12
	17	87.0	87.6	86.6	85.9	84.4	82.4	80.7	79.2	78.2	77.6	77.2	76.0	79.22
	18	88.0	88.0	88.2	87.0	85.0	83.6	81.6	79.8	79.3	78.4	77.6	77.0	80.18
	19	87.7	84.5	85.0	85.8	84.8	83.3	81.9	80.3	78.9	78.5	77.7	76.7	80.22
	20	87.0	83.8	83.2	84.3	81.8	79.1	78.2	78.0	77.4	76.3	75.6	75.2	79.12
	21	82.3	82.9	83.0	82.2	81.7	80.3	79.0	78.5	78.0	77.2	77.0	76.1	77.92
	22	86.4	84.6	83.9	83.4	82.6	81.7	80.5	79.3	78.0	77.8	77.4	76.6	79.21
	23	84.0	86.1	85.8	85.4	83.8	82.6	81.0	80.0	79.0	78.4	78.4	77.8	79.76
	24	86.6	88.0	87.8	87.0	84.5	82.8	80.9	79.9	79.1	77.8	77.1	76.5	80.43
	25	86.7	88.0	87.2	86.0	84.8	82.6	80.7	79.5	78.6	77.1	76.3	75.5	79.71
	26	88.2	89.0	88.0	85.4	84.0	82.9	81.1	79.8	78.5	78.0	77.0	76.7	79.80
	27	88.0	88.6	87.0	87.2	85.6	83.4	81.2	80.0	79.4	78.2	77.7	77.2	80.58
	28	86.1	87.1	87.4	86.2	84.5	82.2	81.4	80.0	79.2	78.5	77.0	76.3	80.19
	29	85.5	86.2	86.2	85.0	83.9	82.6	81.3	80.7	78.2	74.3	74.3	74.3	78.96
	30	85.2	83.1	82.6	83.1	83.1	81.1	79.6	78.2	77.4	76.5	76.3	75.6	78.40
Hourly Means.		86.30	86.48	85.94	85.35	84.04	82.30	80.85	79.61	78.62	77.77	77.24	76.65	79.73

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	939	947	946	955	937	946	911	889	802	758	699	646	—
	2	933	941	932	940	913	938	947	940	916	857	807	741	—
	3	942	933	941	949	948	966	957	958	918	872	829	781	—
	4	950	949	948	932	924	932	924	878	829	769	691	614	—
	5	924	940	947	939	939	947	930	906	824	736	713	735	—
	6	930	947	938	946	946	955	938	875	842	724	740	704	—
	7	949	958	966	966	957	956	947	916	812	745	682	696	—
	8	898	914	922	921	938	947	939	907	776	680	679	638	—
	9	914	922	922	930	921	937	921	882	810	719	634	578	—
	10	923	930	930	938	946	946	920	880	780	688	636	570	—
	11	916	923	915	914	921	929	910	856	781	677	658	577	—
	12	899	906	915	923	922	930	922	891	818	665	647	627	—
	13	875	899	915	923	931	939	922	884	757	674	653	637	—
	14	865	864	888	896	896	921	913	851	774	626	583	585	—
	15	867	875	914	898	905	913	914	858	801	716	650	600	—
	16	947	956	956	956	956	965	956	948	916	817	813	731	—
	17	921	921	920	920	937	937	929	904	835	694	611	598	—
	18	914	914	922	938	930	946	929	881	780	663	640	597	—
	19	865	889	898	872	904	912	896	858	740	694	635	631	—
	20	940	940	940	957	956	965	939	892	818	773	735	679	—
	21	939	930	913	903	903	911	911	872	851	816	798	791	—
	22	940	948	947	956	947	947	947	931	868	727	668	637	—
	23	881	889	880	888	897	930	947	906	885	777	700	660	—
	24	891	906	931	939	930	939	923	877	756	713	676	638	—
	25	923	930	922	930	938	937	920	866	789	717	688	630	—
	26	914	921	929	937	929	936	920	864	781	712	673	627	—
	27	899	906	914	913	921	921	921	859	769	706	640	611	—
	28	916	923	923	930	922	930	921	866	783	712	665	626	—
	29	898	921	921	920	910	902	893	863	707	690	636	575	—
	30	930	947	956	965	965	965	965	939	860	769	684	654	—
Hourly Means.		915	923	927	930	930	938	928	890	813	730	685	647	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	712	686	683	709	747	808	865	894	909	918	918	918	839
	2	705	705	684	689	734	794	843	880	918	926	926	926	856
	3	762	745	781	824	858	911	888	919	926	933	942	933	892
	4	681	702	684	693	724	775	799	863	893	900	916	924	829
	5	658	668	678	702	747	800	852	883	915	906	915	922	839
	6	698	723	728	691	702	808	836	871	894	902	917	933	841
	7	690	704	710	742	748	793	828	864	894	870	900	899	841
	8	604	626	671	706	688	744	769	782	823	860	883	906	801
	9	577	549	641	689	703	745	791	840	869	900	907	923	801
	10	538	534	651	673	682	739	784	841	878	885	908	907	796
	11	536	472	522	585	630	692	777	818	854	869	868	907	771
	12	600	593	571	630	692	739	798	818	854	869	846	884	790
	13	622	602	625	640	678	718	749	788	839	823	823	836	781
	14	575	539	599	622	672	726	785	826	803	824	854	852	764
	15	608	664	658	694	739	778	820	832	852	905	939	947	806
	16	716	737	729	700	746	777	841	804	872	888	888	879	854
	17	592	594	613	648	688	743	797	847	861	852	859	899	797
	18	548	542	549	658	724	719	776	824	831	853	859	858	783
	19	606	742	771	692	750	802	821	871	893	908	917	932	812
	20	665	769	705	708	763	832	845	884	900	940	931	939	851
	21	729	731	731	758	792	811	854	869	868	883	900	923	849
	22	643	716	762	740	787	814	849	879	917	917	916	882	845
	23	741	681	693	685	734	759	805	840	878	885	885	892	822
	24	650	601	613	621	742	801	819	855	878	900	916	915	810
	25	597	572	574	655	676	738	789	839	869	900	906	914	801
	26	583	570	632	706	736	780	798	840	877	884	907	906	807
	27	560	574	665	634	660	733	806	848	863	893	900	907	793
	28	642	592	575	618	688	743	755	810	831	853	875	890	791
	29	692	618	612	651	705	744	798	819	744	787	845	921	782
	30	609	718	773	704	718	769	802	868	892	906	899	923	841
Hourly Means.		638	642	663	682	722	771	811	847	870	885	896	907	816

DIRECTION OF THE WIND.

JUNE.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	C	C	C	C	C	NNE	ENE	ENE	ENE
2	C	C	C	C	C	C	C	C	N	N	C	NE
3	C	NE	C	C	C	C	C	C	NE	ENE	E	E
4	C	C	E	E	E	C	E	SE	ESE	ESE	ESE	E
5	C	C	C	C	C	C	C	C	E	SSE	SW	WSW
6	C	C	C	C	C	C	C	SSW	ENE	ESE	E	E
7	C	C	C	C	C	C	E	SE	S	SE	E	E
8	C	C	C	C	C	C	C	E	ESE	ESE	E	E
9	C	C	C	C	C	C	E	E	ESE	ESE	SE	E
10	C	C	C	C	C	C	ENE	ENE	S	S	ESE	SE
11	C	C	NNE	C	C	NNE	NNE	ENE	ENE	ESE	E	E
12	C	C	C	C	C	C	C	E	E	SE	ESE	ESE
13	C	C	C	C	C	C	E	C	ESE	E	E	ESE
14	C	C	C	C	C	C	C	E	S	E	ESE	E
15	C	C	E	ESE	C	C	ESE	E	ESE	SE	ESE	E
16	C	C	C	C	C	C	C	C	C	C	C	NNE
17	C	C	C	C	C	C	C	WSW	WSW	SE	ESE	ESE
18	C	C	C	C	C	C	C	C	ESE	SE	E	E
19	ENE	ENE	C	ENE	C	C	ENE	ENE	SE	E	ESE	E
20	ENE	C	ENE	ENE	ENE	E	E	ESE	ESE	ESE	E	ESE
21	C	C	C	C	C	N	N	SW	SE	SE	E	ENE
22	C	C	C	C	C	C	C	C	ESE	ESE	ESE	E
23	ENE	ENE	ENE	C	C	C	C	ENE	ENE	ENE	E	ENE
24	ENE	ENE	C	C	C	ENE	ENE	E	ESE	ESE	ESE	E
25	C	C	C	C	C	C	E	ESE	SE	ESE	ESE	E
26	C	C	C	C	C	C	E	C	ESE	E	E	ESE
27	ENE	ENE	ENE	C	C	C	ENE	ENE	SE	ESE	ESE	ESE
28	C	C	C	C	C	C	C	ESE	SE	ESE	ESE	ESE
29	C	C	C	C	C	C	C	C	SE	E	E	ENE
30	SSW	S	SE	SE	SE	C	C	C	SE	E	ENE	E

JUNE.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NNE	NE	NNE	NNE	C	C	C	C	C	C	C	C
2	NE	NNE	NE	NNE	NE	C	C	C	C	NE	C	NE
3	E	E	NE	E	C	C	C	C	C	C	C	C
4	ESE	NNE	ENE	ENE	ENE	ENE	C	C	C	C	C	C
5	NW	NNE	NNE	N	NNW	WSW	C	C	C	WSW	SSW	C
6	E	ENE	ENE	E	E	C	C	C	C	C	C	C
7	SE	ESE	NNE	NE	NE	NE	C	C	C	NE	NE	NE
8	E	E	E	E	E	ENE	ENE	ENE	C	C	C	C
9	E	ENE	NE	NE	NE	ENE	ENE	C	C	C	C	C
10	E	NE	N	NNE	NE	NNE	C	C	C	C	C	C
11	ENE	ESE	ENE	E	E	E	C	C	C	C	C	C
12	ESE	ESE	E	ENE	E	E	E	E	C	E	E	E
13	SE	E	E	E	ENE	E	E	E	E	C	C	C
14	ENE	E	ENE	ENE	NE	NE	NE	ENE	E	C	C	C
15	ENE	NNE	NNE	NE	NE	C	C	NE	S	NW	C	C
16	NE	NE	N	NE	NNE	C	NE	WSW	WSW	C	C	C
17	E	SE	E	E	E	E	C	C	C	C	C	C
18	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
19	E	NE	NE	E	ENE	ENE	C	C	C	C	C	C
20	E	NE	NE	NE	WSW	WNW	WNW	N	C	C	C	C
21	E	E	E	E	E	E	C	C	C	C	C	C
22	ESE	NE	NE	NE	NE	NE	NE	C	C	C	NE	ENE
23	NNE	ENE	NE	NE	ENE	ENE	ENE	ENE	C	C	C	ENE
24	ENE	ENE	ENE	ENE	E	E	E	E	C	C	C	C
25	E	ENE	ENE	ENE	ENE	E	E	C	C	C	C	C
26	E	ENE	ENE	ENE	ENE	ENE	ENE	C	C	C	C	C
27	E	ENE	NE	E	E	E	E	C	C	C	E	E
28	ESE	E	E	E	E	ESE	ESE	C	C	C	C	C
29	NNE	N	NNE	N	NE	NE	C	C	SSW	SSW	SSW	SSW
30	ENE	NE	N	NE	ENE	ENE	ENE	ENE	C	ENE	ENE	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE. 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	2.4	—
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	2.4	—
3	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.0	4.0	—
4	0.0	0.0	0.8	0.8	0.8	0.0	2.4	2.4	8.0	8.0	6.4	7.2	—
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6	—
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	8.0	7.2	4.8	6.4	—
7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.0	4.8	3.2	1.6	—
8	0.0	0.0	0-0	0.0	0 0	0.0	0.0	4.0	9.7	11.3	10.5	10.5	—
9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	3.2	4.0	6.4	8.9	—
10	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.8	6.4	8.9	8.9	—
11	0.0	0.0	0.8	0.0	0.0	1.6	3.2	1.6	3.2	6.4	8.9	12.1	—
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	8.0	11.3	9.7	—
13	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	5.6	9.7	12.1	11.3	—
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	7.2	11.3	12.1	—
15	0.0	0.0	1.6	0.8	0.0	0.0	1.6	6.4	8.0	6.4	7.2	4.8	—
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	—
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	6.4	8 0	8.9	—
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	11.3	15.3	14.5	—
19	0.8	0.8	0.0	1.6	0.0	0.0	0.8	4.0	9.7	11.3	12.1	10.5	—
20	0.8	0.0	1.6	1.6	1.6	1.6	1.6	3.2	4.0	8.9	11.3	3.2	—
21	0.0	0.0	0.0	0.0	0.0	0.8	3.2	4.8	1.6	2.4	4.8	7.2	—
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	6.4	7.2	8.0	—
23	1.6	2.4	1.6	0.0	0.0	0.0	0.0	0.8	0.8	5.6	10.5	11.3	—
24	1.6	0.8	0.0	0.0	0.0	0.8	0.8	6.4	11.3	14.5	15.3	13.7	—
25	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	8.0	12.9	12.9	12.9	—
26	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	7.2	9.7	10.5	12.9	—
27	1.6	1.6	0.8	0.0	0.0	0.0	1.6	1.6	8.9	10.5	12.1	11.3	—
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	12.1	14.5	15.3	—
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	8.0	8.9	10.5	—
30	1.6	4.0	0.8	0.8	0.8	0.0	0.0	0.0	0.8	4.8	9.7	8.0	—
Hourly Means.	0.27	0.35	0.27	0.19	0.11	0.16	0.69	1.60	4.20	6.99	8.38	8.48	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE. 1	4.0	4.0	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.87
2	2.4	3.2	4.0	3.2	1.6	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.83
3	3.2	4.0	7.2	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.47
4	7.2	8.0	9.7	8.9	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.28
5	3.2	8.0	7.2	4.8	4.8	1.6	0.0	0.0	0.0	1.6	1.6	0.0	1.57
6	6.4	5.6	4.0	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.00
7	1.6	1.6	9.7	7.2	4.0	1.6	0.0	0.0	0.0	0.8	1.6	0.8	1.87
8	11.3	12.9	12.1	12.9	9.7	5.6	2.4	1.6	0.0	0.0	0.0	0.0	4.77
9	6.4	8.0	10.5	13.7	8.0	6.4	1.6	0.0	0.0	0.0	0.0	0.0	3.28
10	7.2	8.0	7.2	9.7	7.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.08
11	12.1	11.3	11.3	8.0	4.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	3.72
12	7.2	8.9	9.7	11.3	8.0	3.2	3.2	0.8	0.0	0.8	0.8	0.8	3.59
13	10.5	12.1	11.3	12.9	9.7	3.2	0.8	0.8	0.8	0.0	0.0	0.0	4.23
14	9.7	7.2	8.0	8.0	5.6	2.4	1.6	2.4	0.8	0.0	0.0	0.0	3.28
15	6.4	10.5	13.7	8.9	4.8	0.0	0.0	1.6	1.6	0.8	0.0	0.0	3.55
16	4.0	6.4	4.8	6.4	4.8	0.0	1.6	2.4	0.8	0.0	0.0	0.0	1.40
17	6.4	8.0	12.9	12.9	11.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	3.35
18	14.5	15.3	12.9	12.9	8.9	4.8	1.6	0.8	0.8	1.6	1.6	0.8	5.03
19	7.2	11.3	8.0	8.0	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	3.92
20	8.0	11.3	4.8	3.2	3.2	1.6	0.8	1.6	0.0	0.0	0.0	0.0	3.08
21	8.0	8.0	4.8	1.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.10
22	6.4	8.9	10.5	8.9	4.0	1.6	0.8	0.0	0.0	0.0	2.4	1.6	2.81
23	9.7	7.2	12.1	15.3	10.5	3.2	1.6	0.8	0.0	0.0	0.0	0.8	3.99
24	14.5	16.1	16.9	16.9	6.4	4.8	1.6	0.8	0.0	0.0	0.0	0.0	5.97
25	11.3	17.7	15.3	13.7	9.7	4.8	1.6	0.0	0.0	0.0	0.0	0.0	5.17
26	11.3	15.3	16.1	15.3	11.3	6.4	1.6	0.0	0.0	0.0	0.0	0.0	4.97
27	11.3	12.9	11.3	14.5	10.5	2.4	1.6	0.0	0.0	0.0	0.8	0.8	4.84
28	12.1	17.7	16.9	17.7	14'5	6.4	0.8	0.0	0.0	0.0	0.0	0.0	5.60
29	10.5	9.7	13.7	11.3	9.7	3.2	0.0	0.0	8.9	6.4	4.8	3.2	4.73
30	11.3	7.2	6.4	10.5	11.3	6.4	3.2	0.8	0.0	1.6	1.6	0.0	3.82
Hourly Means.	8.18	9.54	9.90	9.77	6.65	2.88	0.88	0.48	0.46	0.48	0.51	0.32	3.41

CLOUDS.

CLEAR = 0. OVERCAST = 10.

JUNE.	Mean Batavia Time. 1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	4	4	7	9	10	10	6	3	2	2	1	1	—
2	6	8	6	2	1	3	10	8	8	8	9	8	—
3	9	10	10	10	10	10	10	9	9	9	9	9	—
4	7	2	2	6	7	3	1	3	1	7	7	5	—
5	4	3	2	2	4	7	4	3	3	3	4	4	—
6	2	2	1	1	2	3	2	3	3	4	9	8	—
7	10	4	2	2	1	4	3	2	1	3	6	6	—
8	2	3	4	3	1	4	8	7	4	2	3	6	—
9	1	1	1	1	1	1	1	1	0	0	1	6	—
10	1	1	2	2	3	4	3	0	0	0	1	1	—
11	2	4	3	3	2	3	2	3	3	4	5	3	—
12	4	4	5	4	5	6	4	3	3	1	4	4	—
13	1	4	2	1	4	6	3	2	1	1	3	3	—
14	2	1	1	0	0	2	1	0	1	1	0	1	—
15	8	4	3	3	4	8	4	2	2	2	3	3	—
16	8	6	9	9	9	10	9	9	8	6	6	7	—
17	2	3	2	8	3	7	10	8	6	2	3	3	—
18	7	6	6	4	2	4	1	1	1	1	2	3	—
19	1	1	1	2	2	3	1	0	1	1	1	1	—
20	4	4	3	8	5	6	4	4	4	4	4	5	—
21	6	4	4	5	6	10	10	9	9	9	10	10	—
22	8	4	4	2	3	7	9	9	9	7	4	9	—
23	10	10	10	10	10	9	7	3	2	2	3	7	—
24	0	0	0	0	0	2	1	0	0	5	6	6	—
25	3	2	2	1	3	4	3	0	1	4	5	5	—
26	0	0	0	0	1	1	2	1	0	2	4	6	—
27	1	1	0	1	0	0	0	0	0	3	6	7	—
28	1	6	1	2	3	1	2	1	2	5	5	4	—
29	1	1	0	0	1	2	0	1	0	1	1	1	—
30	9	10	9	10	8	8	8	3	0	1	3	5	—
Hourly Means.	4.1	3.8	3.4	3.7	3.7	4.9	4.3	3.3	2.8	3.3	4.3	4.9	—

JUNE.	Mean Batavia Time. 1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	1	1	2	1	2	2	1	0	9	10	10	8	4.4
2	6	5	3	3	2	3	1	0	6	10	9	6	5.5
3	7	9	7	10	9	10	7	6	6	5	4	4	8.3
4	6	7	5	3	2	3	3	3	2	2	1	7	4.0
5	6	4	4	3	8	10	2	1	2	2	1	2	3.7
6	9	9	7	4	3	2	2	2	6	7	9	10	4.6
7	5	4	6	3	2	3	3	3	3	4	2	2	3.5
8	5	7	7	2	2	3	2	2	1	2	2	1	3.5
9	6	5	4	2	2	2	2	1	1	2	2	1	1.9
10	0	1	1	1	0	4	2	3	4	2	3	3	1.8
11	0	1	2	2	2	2	2	1	4	6	7	7	3.0
12	5	4	3	4	3	3	3	1	2	3	2	1	3.4
13	4	4	3	1	2	2	1	3	8	5	7	3	3.1
14	2	2	7	5	6	6	3	3	6	4	4	4	2.6
15	7	1	5	1	1	4	9	10	8	10	10	10	5.1
16	4	4	3	3	4	4	10	7	6	10	10	7	7.0
17	7	9	5	4	3	4	0	0	0	0	0	1	3.8
18	2	2	2	2	3	3	2	2	3	4	3	2	2.8
19	3	4	7	3	3	3	3	3	5	4	3	2	2.4
20	6	7	6	4	10	10	10	10	10	8	3	3	5.9
21	10	10	10	10	10	10	9	9	8	10	7	7	8.4
22	8	9	9	9	7	8	1	2	3	4	9	6	6.3
23	5	4	6	4	3	4	3	3	9	8	7	6	6.0
24	5	3	2	6	4	5	2	0	0	0	1	0	2.0
25	5	1	7	1	1	1	1	1	0	0	0	0	2.1
26	5	5	4	3	3	2	0	1	3	1	1	6	2.1
27	4	5	4	3	4	5	3	2	1	0	0	0	2.1
28	7	4	2	2	6	7	8	3	3	2	3	2	3.4
29	1	1	1	1	0	2	4	6	8	10	10	10	2.6
30	7	10	7	8	4	4	2	3	1	3	3	2	5.3
Hourly Means.	4.9	4.7	4.7	3.6	3.7	4.4	3.4	3.0	4.3	4.6	4.4	4.1	4.01

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	10.7	18.7	15.5	10.2	11.8	9.6	15.0	10.2	9.1	3.8	3.8	3.2	—
	2	9.6	11.2	9.6	8.6	8.6	9.6	12.3	13.4	8.6	5.9	2.7	2.1	—
	3	8.0	7.5	8.0	4.8	N	3.2	20.3	11.2	9.1	4.3	3.2	2.1	—
	4	9.1	9.1	7.5	5.4	4.8	4.8	10.2	5.4	2.7	2.7	2.1	2.1	—
	5	11.2	12.8	16.1	15.5	13.9	11.8	10.2	12.3	4.8	3.2	3.2	3.8	—
	6	12.8	16.1	15.0	13.9	16.6	17.7	17.1	7.5	4.8	3.8	3.8	2.7	—
	7	4.3	7.0	11.2	7.5	6.4	7.5	9.1	4.3	1.6	0.5	—	—	—
	8	—	—	—	—	—	—	—	7.0	3.8	2.7	3.2	2.7	—
	9	16.6	11.2	14.5	11.2	9.6	11.8	15.0	8.0	4.3	2.1	2.7	2.1	—
	10	10.7	10.2	10.7	7.0	5.4	5.4	5.9	5.9	4.3	2.7	3.2	2.7	—
	11	8.6	9.6	7.5	7.5	8.0	9.1	11.2	8.0	5.9	3.2	3.2	2.1	—
	12	10.7	8.6	10.7	8.0	9.6	9.1	8 6	7.5	4.8	2.1	1.6	2.1	—
	13	2.7	3.2	3.2	2.1	2.7	2.1	—	5.9	3.8	2.1	1.6	2.1	—
	14	8.6	7.0	5.9	7.0	6.4	8.0	8.6	6.4	4.8	3.2	2.7	2.1	—
	15	4.8	4.3	5.4	3.8	3.8	5.9	10.2	3.8	3.2	2.1	1.6	1.1	—
	16	7.0	7.5	5.9	5.4	4.8	5.9	11.2	12.8	7.0	7.0	4.3	2.7	—
	17	5.4	5.4	5.4	3.8	7.5	5.9	14.5	10.2	5.9	3.2	2.7	—	—
	18	—	—	—	—	—	—	—	5.9	3.8	2.7	2.1	2.1	—
	19	8.6	5.9	7.5	8.6	8.0	10.2	15.0	8.6	4.8	2.7	1.6	2.7	—
	20	11.8	12.8	14.5	N	8.6	7.0	12.8	8.0	4.8	2.7	2.7	2.1	—
	21	4.8	4.8	4.8	4.8	5.4	7.0	8.6	—	—	—	3.8	3.2	—
	22	9.6	10.2	8.0	10.2	17.1	13.4	12.8	8.0	7.0	4.3	3.8	3.8	—
	23	19.3	11.2	P	P	P N	6.4	13.4	9.1	6.4	2.1	2.7	1.6	—
	24	5.9	8.0	7.5	9.6	7.0	8.6	11.2	4.3	3.8	2.1	2.1	2.1	—
	25	8.6	7.0	9.1	9.6	8.0	9.6	14.5	9.1	4.3	2.7	2.1	1.1	—
	26	10.7	12.3	10.2	7.5	5.9	5.4	6.4	9.1	4.8	2.1	2.1	1.6	—
	27	6.4	5.9	6.4	7.0	8.6	10.2	13.4	7.0	3.8	1.6	2.1	2.1	—
	28	10.2	10.2	8.6	10.2	7.0	11.8	20.3	10.2	4.8	2.7	1.1	2.1	—
	29	5.9	6.4	3.8	3.8	3.8	2.7	4.3	10.2	5.4	1.1	2.1	2.1	—
	30	— 0.5	N	1.1	2.7	3.8	8.0	13.9	7.0	5.4	2.1	2.1	2.7	—
Hourly Means.		8.6	9.0	8.7	7.5	7.8	8.1	12.1	8.1	5.1	2.9	2.6	2.3	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	4.3	4.3	3.8	5.4	5.4	7.5	9.6	5.9	5.9	10.7	N	2.7	8.1
	2	2.7	3.2	2.7	2.1	3.2	1.1	5.9	6.4	6.4	7.5	4.3	8.6	6.5
	3	2.1	3.2	1.6	2.1	9.6	7.5	13.4	7.5	7.5	9.1	9.6	11.8	7.2
	4	2.7	3.2	4.8	—	—	7.5	9.1	13.4	13.4	11.2	11.2	8.6	6.9
	5	2.7	2.7	2.1	3.2	4.8	0.5	8.6	17.1	13.9	10.7	8.6	9.1	8.5
	6	3.2	4.3	3.2	3.2	3.8	4.8	7.0	8.0	11.8	9.6	9.1	N	8.7
	7	—	—	—	—	—	—	—	—	—	—	—	—	5.9
	8	2.7	2.1	1.6	3.2	3.8	4.8	6.4	6.4	10.7	12.3	11.2	16.1	5.9
	9	2.1	2.1	1.6	1.6	2.7	5.9	7.5	7.5	10.7	6.4	7.0	6.4	7.1
	10	3.2	2.7	3.2	2.7	2.7	5.4	5.9	8.0	10.7	7.5	11.2	5.4	5.9
	11	2.7	2.7	2.7	— 0.5	2.1	1.6	5.9	8.0	12.8	12.8	9.1	10.7	6.4
	12	1.6	2.1	1.6	1.6	1.1	2.1	5.4	4.8	5.4	6.4	5.4	4.3	5.2
	13	2.1	2.1	2.7	2.1	2.1	2.7	5.9	9.6	11.8	7.5	9.1	7.0	4.2
	14	2.1	1.6	— 1.6	1.1	N	4.3	6.4	6.4	6.4	7.5	10.7	5.4	5.3
	15	2.1	0.0	— 1.1	0.0	2.1	8.0	12.8	15.5	— 2.7	P N	12.3	4.3	4.5
	16	2.1	3.2	2.1	4.3	4.8	7.0	14.5	3.2	4.3	3.2	3.8	4.8	5.8
	17	—	—	—	—	—	—	—	—	—	—	—	—	6.4
	18	1.6	3.2	3.2	4.3	2.7	4.8	7.5	6.4	7.0	8.0	7.5	7.0	4.7
	19	2.1	11.2	2.1	4.3	3.8	5.4	7.5	9.6	9.6	12.8	10.7	17.1	7.5
	20	4.3	1.1	3.8	3.8	8.0	P N	P N	P N	P N	— 1.1	5.4	4.8	6.2
	21	2.7	2.7	2.1	—	—	—	10.2	19.3	19.8	23.5	12.8	16.1	8.7
	22	3.8	3.8	4.3	4.8	5.4	10.7	11.8	13.4	12.3	12.8	21.4	10.2	9.3
	23	1.6	2.1	3.2	3.8	3.2	5.9	7.5	7.5	5.9	11.8	8.6	8.6	6.8
	24	1.6	1.6	1.6	1.6	2.7	3.8	7.0	7.5	7.5	10.7	10.7	8.6	5.7
	25	2.7	1.6	1.6	1.6	2.1	2.7	7.5	10.2	10.2	12.8	11.2	11.2	6.7
	26	1.6	1.1	0.5	1.6	2.1	4.3	4.8	9.1	8.6	10.2	10.7	8.0	5.9
	27	2.7	1.6	1.1	2.7	1.6	1.6	9.1	12.3	10.2	10.7	10.2	10.2	6.2
	28	2.7	2.1	1.1	1.6	2.7	4.3	5.9	7.0	8.0	6.4	5.9	4.8	6.3
	29	1.6	1.6	— 1.1	0.5	2.1	3.2	6.4	8.0	10.7	3.8	3.8	N	4.0
	30	2.1	3.2	1.6	3.8	3.2	4.8	6.4	7.0	7.5	7.0	6.4	7.5	4.7
Hourly Means.		2.5	2.7	2.0	2.6	3.5	4.7	8.0	9.1	9.1	9.3	9.2	8.4	6.41

BAROMETRIC PRESSURE.

BAROMETER AT 0°C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	10.15	9.68	9.29	9.47	9.69	9.96	10.48	11.06	11.25	10.95	10.68	10.12	—
	2	10.73	10.55	10.06	10.01	10.52	10.74	10.97	11.46	11.44	11.22	10.74	10.03	—
	3	10.25	9.84	9.55	9.46	9.61	9.90	10.60	11.12	11.11	10.84	10.55	9.92	—
	4	9.89	9.60	9.11	9.04	9.21	9.62	10.26	10.67	10.66	10.45	10.03	9.26	—
	5	10.05	9.73	9.51	9.29	9.26	9.75	10.11	10.60	10.86	10.84	10.39	9.87	—
	6	11.13	10.98	10.71	10.46	10.35	10.69	10.95	11.39	11.56	11.45	10.89	10.54	—
	7	11.11	10.81	10.58	10.41	10.52	10.62	10.82	11.32	11.40	11.23	10.65	10.04	—
	8	10.35	10.19	9.96	9.76	9.97	10.39	10.81	11.36	11.39	11.00	10.23	9.64	—
	9	9.62	9.12	8.67	8.61	8.52	8.71	9.40	10.11	10.10	10.07	9.80	9.39	—
	10	9.59	9.24	9.04	9.23	9.27	9.42	9.32	9.58	9.66	9.41	8.98	8.46	—
	11	9.55	9.32	9.11	9.06	9.08	8.97	9.22	9.44	9.43	9.06	8.44	7.70	—
	12	9.20	8.96	8.72	8.75	8.89	9.20	9.58	9.81	9.96	9.69	9.51	9.05	—
	13	8.96	8.72	8.69	8.67	9.08	9.25	9.83	10.21	10.19	9.78	9.15	8.81	—
	14	8.78	8.60	8.46	8.32	8.34	8.57	9.18	9.28	9.39	9.04	8.56	7.85	—
	15	8.86	8.59	8.41	8.49	8.87	9.19	9.51	9.85	9.89	9.99	9.54	8.57	—
	16	8.89	8.47	8.51	8.65	8.71	8.86	9.26	10.06	10.05	9.86	9.44	9.10	—
	17	9.14	8.95	8.85	8.91	9.33	9.60	9.84	10.08	10.30	10.20	9.68	8.90	—
	18	10.15	9.80	9.39	9.51	9.66	9.99	10.35	10.69	10.95	10.99	10.55	10.06	—
	19	10.14	9.80	9.65	9.65	9.74	10.09	10.89	11.12	11.35	10.99	10.36	9.72	—
	20	10.51	10.19	10.02	10.10	10.39	10.76	11.41	11.66	12.09	11.99	11.59	11.07	—
	21	11.04	10.43	10.16	10.14	10.41	10.64	11.09	11.62	11.89	11.69	11.14	10.45	—
	22	10.30	9.83	9.51	9.55	9.97	10.30	10.59	11.29	11.31	11.15	10.76	9.88	—
	23	10.46	10.24	10.09	9.80	10.25	10.61	11.06	11.10	10.83	10.43	9.94	9.39	—
	24	10.00	9.56	9.56	9.69	9.70	9.98	10.50	11.10	11.17	10.65	10.40	9.71	—
	25	10.28	10.16	9.99	9.86	9.55	9.70	10.04	10.16	10.25	10.04	9.81	9.41	—
	26	10.40	10.13	9.81	9.80	9.86	10.04	10.42	10.85	11.08	10.79	10.27	9.76	—
	27	9.94	9.50	9.45	9.41	9.70	10.07	10.41	10.66	10.71	10.27	9.55	8.84	—
	28	8.79	8.34	7.85	7.75	8.13	8.66	9.22	9.72	9.91	9.55	9.08	8.44	—
	29	8.74	8.63	8.51	8.47	8.71	8.89	9.35	9.48	9.47	9.11	8.81	8.22	—
	30	8.93	8.76	8.88	8.91	9.04	9.59	10.20	10.38	10.56	10.29	9.85	9.22	—
	31	9.85	9.68	9.42	9.66	9.99	10.19	10.46	10.85	10.99	10.51	10.10	9.32	—
Hourly Means.		9.86	9.56	9.34	9.32	9.49	9.77	10.20	10.58	10.68	10.44	9.98	9.38	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	9.57	8.95	8.74	8.83	8.97	9.20	9.98	10.38	10.98	11.13	10.90	10.86	10.05
	2	9.46	8.86	8.64	8.61	8.80	9.04	9.41	9.94	10.38	10.90	10.93	10.81	10.18
	3	9.25	8.49	8.34	8.29	8.43	8.77	9.15	9.65	10.16	10.35	10.39	10.31	9.76
	4	8.83	8.41	8.08	8.10	8.30	8.54	8.79	9.64	10.04	10.31	10.39	10.15	9.47
	5	9.50	8.89	8.73	8.83	8.98	9.14	9.92	10.70	11.24	11.38	11.34	11.49	10.02
	6	9.96	9.28	9.07	8.97	9.03	9.36	9.96	10.56	11.06	11.59	11.49	11.25	10.53
	7	9.55	8.81	8.51	8.37	8.41	8.76	9.14	9.70	10.26	10.44	10.54	10.31	10.10
	8	8.96	8.21	7.82	7.58	7.73	7.94	8.32	8.75	9.57	10.21	10.34	10.28	9.62
	9	9.11	8.77	8.44	8.44	8.78	8.87	9.09	9.59	10.28	10.76	10.79	10.36	9.39
	10	7.99	7.48	7.26	7.38	7.84	8.11	8.84	9.46	9.97	10.10	10.11	10.06	8.99
	11	7.10	6.69	6.39	6.56	6.66	6.90	7.71	8.48	8.99	9.45	9.65	9.31	8.43
	12	8.43	7.70	7.30	7.36	7.73	7.93	8.07	8.81	9.11	9.30	9.25	9.15	8.81
	13	8.01	7.42	7.20	7.35	7.76	7.97	8.25	8.71	9.00	9.10	9.21	9.20	8.77
	14	7.43	6.79	6.67	6.66	7.22	7.63	7.99	8.57	8.94	9.19	9.33	9.04	8.33
	15	8.36	7.70	7.38	7.58	7.93	8.33	8.93	9.22	9.40	9.58	9.51	9.38	8.88
	16	8.17	7.86	7.65	7.73	8.05	8.41	9.19	9.52	9.86	9.83	9.49	9.39	8.96
	17	8.34	7.82	7.69	7.77	8.00	8.54	8.88	9.63	10.43	10.55	10.43	10.09	9.25
	18	9.17	8.58	8.28	8.32	8.45	8.73	9.09	9.69	10.24	10.44	10.49	10.61	9.76
	19	9.08	8.68	8.33	8.44	8.69	9.07	9.76	10.54	10.90	11.12	11.15	11.08	10.01
	20	10.48	9.68	9.16	9.17	9.52	9.83	10.27	11.19	11.51	11.68	11.70	11.58	10.73
	21	9.32	8.74	8.42	8.45	8.56	8.88	9.43	9.98	10.26	10.54	10.52	10.65	10.19
	22	9.41	8.95	8.46	8.53	8.72	9.03	9.17	9.81	10.18	10.52	10.68	10.61	9.94
	23	8.94	8.60	8.31	8.15	8.28	8.60	8.96	9.56	10.07	10.39	10.34	10.31	9.78
	24	9.21	8.64	8.14	8.08	8.31	8.66	9.07	9.65	10.18	10.56	10.69	10.44	9.74
	25	9.08	8.23	7.98	8.08	8.38	8.55	9.26	9.72	10.21	10.59	10.73	10.79	9.62
	26	9.13	8.37	7.97	7.87	8.00	8.52	9.10	9.66	10.00	10.13	10.18	10.07	9.68
	27	8.16	7.51	7.31	7.07	7.38	7.73	8.54	9.07	9.25	9.25	9.29	9.27	9.10
	28	7.60	7.04	6.65	6.70	6.97	7.48	7.99	8.67	8.99	9.08	9.01	8.90	8.36
	29	7.76	7.22	7.00	7.23	7.48	7.92	8.45	8.93	9.23	9.48	9.34	9.19	8.57
	30	8.62	8.02	7.63	7.83	8.15	8.46	9.20	9.90	10.24	10.24	10.20	10.15	9.30
	31	8.98	8.56	8.18	8.17	8.37	8.78	9.08	9.63	10.15	10.33	10.33	9.89	9.64
Hourly Means.		8.81	8.22	7.93	7.95	8.19	8.51	9.00	9.59	10.03	10.27	10.28	10.16	9.48

STANDARD THERMOMETER.

JULY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	74.9	74.7	74.2	73.4	73.2	72.5	72.5	74.4	78.0	82.0	84.2	85.4	—
2	75.5	74.8	74.0	73.4	73.0	72.8	73.0	75.3	79.0	81.8	83.9	85.4	—
3	77.3	76.2	75.9	75.5	75.0	74.5	74.0	75.7	79.0	81.9	83.0	84.7	—
4	75.6	75.2	75.0	74.5	74.0	73.7	74.0	75.0	77.6	81.1	83.1	84.5	—
5	76.0	75.5	75.2	74.4	73.7	73.1	73.6	76.3	79.7	82.0	83.8	85.6	—
6	76.8	75.7	74.9	74.0	73.5	72.9	73.0	75.1	78.6	81.1	83.4	85.7	—
7	75.0	74.9	74.4	74.0	73.4	73.0	73.1	74.9	78.7	81.4	83.8	85.8	—
8	75.6	74.4	73.2	72.2	72.0	71.2	71.4	73.6	76.6	79.9	82.5	85.2	—
9	74.5	74.3	73.0	72.0	71.0	70.4	70.5	72.0	75.8	78.7	81.3	82.2	—
10	74.6	73.0	72.1	71.4	70.4	69.6	70.0	72.0	76.5	79.2	81.0	82.9	—
11	70.6	70.0	69.5	69.0	68.6	67.6	68.1	71.4	76.3	80.7	83.2	85.7	—
12	75.0	74.1	73.7	73.1	72.5	72.3	73.0	75.0	79.0	82.0	84.3	85.5	—
13	73.6	73.0	72.2	71.7	71.7	71.1	71.6	74.2	77.5	81.1	84.4	85.1	—
14	74.0	73.4	72.4	72.1	71.3	70.6	71.0	74.0	78.2	82.1	85.0	87.0	—
15	74.3	73.8	73.3	73.0	72.2	71.6	72.2	74.7	78.2	81.0	83.3	85.8	—
16	77.0	76.4	75.2	75.4	75.4	75.2	75.7	75.9	77.2	80.2	82.4	84.8	—
17	75.3	75.5	75.5	75.3	75.0	74.3	74.5	76.0	79.0	81.2	83.0	84.0	—
18	75.9	74.7	73.8	72.8	72.3	72.3	73.0	75.8	79.6	82.0	84.3	86.4	—
19	75.0	74.2	73.7	73.3	73.0	72.4	73.0	75.7	79.6	82.1	84.1	86.5	-
20	77.6	77.1	76.4	75.8	75.0	74.9	75.2	76.7	79.0	82.0	84.3	85.0	—
21	76.0	75.8	75.1	74.3	73.1	71.4	71.4	73.6	76.1	81.3	83.3	85.0	—
22	75.8	74.1	73.1	73.1	72.7	71.5	72.0	75.0	79.0	80.8	81.8	84.0	—
23	73.0	72.2	71.0	69.8	69.6	68.8	69.6	73.8	79.0	81.9	84.1	84.8	—
24	74.7	73.8	73.2	72.2	71.6	71.2	71.1	74.0	78.5	81.7	84.5	86.1	
25	76.6	75.6	75.0	74.6	73.6	73.0	73.2	75.2	79.0	82.2	84.3	87.2	—
26	77.0	76.7	76.0	75.3	75.1	74.6	74.6	77.3	80.0	83.0	85.2	87.3	—
27	75.0	74.6	73.9	73.1	72.5	72.1	72.5	75.0	78.0	81.6	84.9	86.7	—
28	77.1	77.1	76.1	75.4	74.9	74.1	74.3	76.2	79.1	81.7	83.5	84.0	—
29	75.0	74.0	73.4	72.6	72.0	71.0	71.0	73.5	78.1	81.1	83.1	85.5	
30	75.5	74.6	73.9	73.0	71.6	71.2	71.0	74.0	78.7	81.4	83.7	86.0	—
31	74.8	74.3	73.7	73.1	73.1	72.4	72.6	74.4	79.2	81.0	82.6	85.3	
Hourly Means.	75.31	74.64	73.94	73.32	72.77	72.17	72.44	74.70	78.32	81.33	83.53	85.33	—

JULY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	86.7	87.2	86.9	86.5	83.9	81.8	80.0	78.5	77.1	76.5	75.6	76.0	79.00
2	86.4	86.6	85.6	84.4	83.9	82.4	81.4	80.4	79.7	79.5	79.0	78.0	79.55
3	85.0	85.0	84.8	84.7	83.0	81.8	80.0	78.6	77.7	77.5	76.5	76.0	79.30
4	85.4	85.0	84.4	83.7	83.0	82.0	80.2	79.5	78.8	78.2	78.1	76.7	79.10
5	85.6	85.8	85.1	84.1	83.6	82.1	80.3	79.0	78.6	77.7	77.2	77.1	79.38
6	85.9	86.4	85.5	84.1	83.0	81.5	80.1	79.0	77.4	76.7	76.1	75.5	79.00
7	86.1	85.5	85.3	84.0	82.9	81.7	80.0	78.1	77.7	77.0	76.2	75.9	78.87
8	86.0	85.5	85.0	84.2	83.1	81.3	79.6	77.4	76.4	76.2	75.8	75.0	78.05
9	82.8	84.0	82.6	81.8	81.6	80.4	79.0	78.0	77.4	77.0	76.3	75.8	77.18
10	84.7	84.2	83.1	82.7	81.8	79.8	77.0	75.0	74.6	73.6	72.1	71.6	76.37
11	86.5	84.4	84.4	84.0	82.4	80.5	79.1	78.2	76.9	76.2	75.5	75.6	76.85
12	86.4	85.6	85.4	84.6	83.2	82.0	79.9	78 2	77.1	76.0	75.1	74.5	78.65
13	85.7	87.0	86.8	85.6	83.1	81.7	79.8	78.2	77.2	76.0	75.1	74.4	78.24
14	88.0	88.4	87.9	86.0	84.0	82.2	80.6	78.6	77.1	76.3	75.6	75.0	78.78
15	86.0	85.1	85.1	84.1	83.0	81.7	80.9	80.5	79.7	78.8	78.1	78.1	78.94
16	86.0	84.0	84.0	83.1	82.5	81.0	80.5	79.9	79.1	78.5	77.2	76.5	79.30
17	86.2	86.5	85.0	84.3	83.4	81.6	80.4	79.0	79.0	78.5	77.8	77.4	79.49
18	86.9	86.0	85.2	83.8	82.4	81.2	80.4	78.6	77.5	76.6	76.3	75.5	78.89
19	87.7	87.0	85.9	84.5	83.1	82.0	81.1	80.9	80.4	79.9	78.9	78.5	79.69
20	85.3	84.1	86.0	84.9	83.2	81.5	80.2	79.1	78.9	78.9	78.3	77.4	79.87
21	86.0	84.4	83.4	82.6	81.9	80.3	79.0	78.0	77.6	77.1	76.9	76.1	78.32
22	85.0	84.8	84.2	83.2	81.7	80.3	79.2	77.5	76.6	76.2	74.5	74.0	77.92
23	85.4	84.9	82.9	82.9	81.9	80.6	79.4	78.1	78.0	78.0	77.3	76.2	77.63
24	88.0	85.3	85.1	83.9	82.5	81.0	80.0	79.8	79.0	78.2	77.8	77.4	78.78
25	85.9	87.0	86.0	84.7	83.7	82.1	80.8	79.7	78.7	78.1	77.6	77.6	79.64
26	87.5	86.9	86.0	85.0	84.0	82.0	80.7	79.5	77.7	77.1	77.0	76.3	80.08
27	87.5	86.6	86.2	85.5	84.5	82.1	80.6	79.5	78.4	78.0	77.2	77.4	79.31
28	86.7	86.0	85.4	84.0	82.1	81.1	80.5	80.2	79.0	78.1	77.4	75.9	79.58
29	85.9	85.9	84.1	83.3	82.5	81.1	80.4	80.0	79.0	78.1	77.7	76.8	78.55
30	86.0	85.5	84.5	83.6	82.6	81.1	80.3	79.8	78.6	77.5	76.5	75.6	78.59
31	86.4	86.0	84.9	84.0	83.0	81.5	80.5	79.7	79.1	79.0	78.6	78.2	79.06
Hourly Means.	86.12	85.70	85.05	84.12	82.92	81.40	80.06	78.92	78.06	77.45	76.75	76.19	78.77

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	922	930	938	946	946	946	955	913	829	694	615	602	—
2	898	913	938	938	929	929	937	889	763	713	666	646	—
3	883	890	865	864	855	830	845	832	763	694	671	625	—
4	880	897	905	913	912	903	853	863	829	741	678	664	—
5	889	905	914	921	929	929	911	856	713	694	627	590	—
6	874	898	913	912	929	919	910	855	783	697	638	578	—
7	905	922	930	930	938	920	903	879	838	734	639	615	—
8	898	879	877	893	875	882	866	853	778	722	649	547	—
9	870	878	886	892	918	917	908	909	808	654	565	551	—
10	862	876	857	856	907	897	880	781	738	626	602	539	—
11	872	871	853	851	859	867	858	780	628	502	456	388	—
12	830	869	877	876	885	875	843	814	710	592	522	523	—
13	861	877	876	884	892	909	892	829	774	677	561	559	—
14	903	903	910	919	918	917	918	861	746	632	546	532	—
15	904	912	911	910	919	927	910	896	752	676	631	554	—
16	891	874	897	889	889	888	872	824	811	730	641	618	—
17	889	898	880	889	897	913	888	848	778	683	657	628	—
18	881	863	869	885	893	902	886	840	735	659	604	528	—
19	905	913	921	920	920	937	946	898	686	622	579	523	—
20	892	900	915	915	930	922	897	842	770	713	613	657	—
21	745	752	766	763	759	762	747	748	670	609	554	520	—
22	832	845	860	860	859	856	823	782	683	662	638	571	—
23	886	884	909	889	879	870	871	836	748	631	553	520	—
24	879	887	903	902	901	900	900	861	747	665	636	563	—
25	866	880	913	904	911	902	886	855	771	673	609	572	—
26	851	850	864	872	897	896	904	796	695	643	607	544	—
27	897	896	903	894	893	901	885	855	782	699	631	553	—
28	875	867	890	914	914	930	930	865	764	686	639	622	—
29	888	904	903	910	910	927	918	877	730	656	573	548	—
30	872	896	912	910	909	900	881	820	762	665	613	573	—
31	904	896	903	920	920	928	919	887	793	705	656	620	—
Hourly Means.	878	885	892	895	900	900	888	847	754	669	609	569	—

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	595	573	608	619	713	757	803	830	867	882	905	890	803
2	582	613	647	662	686	764	776	811	840	848	885	884	798
3	626	607	582	593	650	707	766	830	844	835	882	889	768
4	647	645	682	673	663	714	766	779	800	837	836	874	790
5	597	598	620	648	612	667	736	793	777	828	851	858	769
6	604	607	628	662	677	713	767	801	844	866	890	905	786
7	623	646	645	673	716	734	780	861	844	875	890	906	806
8	532	535	545	577	617	663	734	804	809	825	840	871	752
9	578	533	641	671	670	723	778	820	819	851	873	848	773
10	495	498	510	508	540	610	733	781	780	818	858	840	725
11	409	516	522	544	588	674	727	761	795	802	815	816	698
12	510	549	511	567	631	658	714	776	796	817	840	846	726
13	531	514	519	609	663	727	795	821	851	881	897	913	763
14	513	515	595	629	693	729	774	807	851	857	880	897	769
15	568	620	620	629	684	735	775	774	840	885	884	876	783
16	604	674	648	657	675	755	797	803	832	853	867	866	786
17	588	571	600	616	672	749	782	823	823	853	844	852	776
18	542	598	626	653	694	747	781	830	852	874	873	905	772
19	540	572	573	636	684	714	761	783	804	825	854	861	766
20	633	554	545	575	599	670	730	771	778	740	782	757	754
21	596	634	631	614	637	666	718	760	781	804	818	849	704
22	569	562	578	657	693	730	771	835	850	849	879	870	755
23	584	619	670	642	679	715	763	805	813	813	843	856	762
24	491	646	620	614	702	754	795	802	822	829	836	851	771
25	641	562	593	605	646	653	709	749	777	806	819	835	756
26	563	583	598	582	654	694	746	786	820	843	843	857	750
27	575	608	637	596	649	736	775	809	837	852	867	867	775
28	565	573	540	614	707	739	759	773	815	836	859	889	774
29	550	550	609	611	673	732	774	780	800	829	828	850	764
30	568	584	642	607	648	712	766	786	830	859	874	889	770
31	589	587	582	647	683	748	797	810	832	839	846	846	786
Hourly Means.	568	582	599	619	661	713	763	799	820	839	857	865	765

DIRECTION OF THE WIND.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	C	C	C	ENE	ENE	ESE	E	E	ENE
2	C	C	C	C	C	C	ENE	ENE	SE	SSW	SW	SW
3	ENE	NNE	ENE	ENE	ENE	ENE	E	S	SE	ENE	ENE	NE
4	C	N	N	N	N	N	N	N	N	WSW	WSW	NNE
5	C	NE	NE	C	C	C	C	C	E	E	ENE	E
6	C	C	NE	NE	C	C	NE	NE	ENE	SSE	SW	SW
7	C	C	C	C	C	C	N	C	E	SSE	E	E
8	NE	NE	NE	NE	C	NE	NE	NE	ESE	SSE	ESE	NE
9	NNE	NNE	NNE	C	C	NNE	C	C	NNE	ENE	SE	E
10	C	C	NE	C	C	NE	NE	ENE	ENE	ESE	WSW	W
11	NE	NE	NE	NE	NE	NE	C	NE	SSE	SSW	E	E
12	NE	NE	NE	NE	NE	NE	NE	C	E	SE	ENE	E
13	C	C	C	C	C	C	C	ENE	E	E	SE	E
14	C	C	C	C	C	C	C	C	SE	E	SE	E
15	C	C	C	C	C	C	C	C	ENE	ESE	SSW	ENE
16	ENE	C	C	C	C	C	ENE	SE	S	S	W	NW
17	C	NNE	C	C	C	C	C	C	NNE	N	NNE	WNW
18	C	C	C	C	C	C	NE	C	NE	ENE	E	E
19	C	C	C	C	C	C	C	C	ESE	E	E	ESE
20	C	C	C	C	C	C	C	NE	ENE	ENE	ENE	NE
21	N	N	N	N	NW	NW	WSW	SW	SW	SW	W	W
22	N	C	N	N	C	N	N	WNW	WSW	SW	SE	N
23	C	C	C	C	C	C	N	N	SE	ESE	E	ESE
24	C	C	C	C	C	C	NNE	C	SE	ESE	E	ENE
25	C	C	C	C	C	C	C	C	E	E	E	ENE
26	C	C	C	C	C	C	C	C	E	S	E	E
27	C	C	C	C	C	C	NE	ESE	SSE	S	E	ENE
28	C	C	C	C	C	C	C	ENE	ENE	E	ENE	ENE
29	C	C	C	C	C	NE	C	ENE	E	E	E	NE
30	C	C	C	C	C	C	NE	NE	E	ESE	ENE	NE
31	C	C	C	C	C	C	C	C	NE	ESE	SSE	NE

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
1	ENE	ENE	ENE	ENE	ENE	ENE	ENE	C	C	C	C	C
2	S	NE	NE	NE	NE	NE	NE	C	C	C	NE	NE
3	NE	N	NNW	N	NNE	N	C	C	C	C	C	C
4	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
5	ENE	NE	NE	NNE	NE	NE	NE	NE	NE	NE	C	C
6	SW	N	NNE	N	N	N	C	C	C	C	C	C
7	NNE	NE	NE	NE	NE	C	C	C	C	C	NE	NE
8	NE	N	N	NNE	NNE	NNE	NNE	C	C	C	C	C
9	ENE	ENE	NE	NE	NE	NE	C	C	NE	C	NE	NE
10	NE	NE	NNE	NE	NE	NE	C	NE	C	C	NE	NE
11	ENE	N	NE	NE	NE	NE	C	C	C	C	C	C
12	E	E	E	NE	ENE	E	C	C	C	C	C	C
13	E	E	NE	NE	ENE	ENE	ENE	C	C	C	C	C
14	E	E	NE	NE	ENE	NE	NE	C	C	C	C	C
15	NNE	N	NNE	NE	NE	NE	NE	ENE	C	C	C	ENE
16	NW	NNE	NE	NNE	N	NNE	NNE	C	C	NNE	NNE	C
17	NE	NE	NE	NE	NE	NE	C	C	C	C	C	C
18	NE	NE	NNE	NNE	NE	NE	NE	NE	C	C	C	C
19	ENE	NNE	NE	NE	NE	NE	NE	C	C	C	C	C
20	NNE	N	N	N	NNE	N	C	C	C	C	N	N
21	NE	NNE	N	NNE	NNE	N	C	C	C	C	C	C
22	NE	NNE	NNE	NE	NNE	N	C	C	C	C	C	C
23	NE	NE	NNE	N	NNE	NNE	C	C	C	C	C	C
24	E	NE	NNE	NE	ENE	NE	C	C	C	C	C	C
25	N	NNE	NNE	NE	NE	ENE	ENE	C	C	C	C	C
26	NE	NNE	NE	NE	NE	NE	C	C	C	C	C	C
27	NE	NNE	NNE	NE	ENE	ENE	C	C	C	C	C	C
28	NE	NE	NNE	NE	NE	NE	C	C	C	C	C	C
29	NNE	NNE	NE	NNE	NE	NE	C	C	C	C	NE	C
30	NE	ENE	NNE	NNE	NE	NE	C	C	C	C	C	C
31	NNE	N	NNE	NNE	NE	NE	C	C	C	C	C	NE

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

JULY.	Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
	1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.8	12.9	12.1	14.5	—
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	6.4	6.4	4.0	—
	3	0.8	1.6	1.6	1.6	4.0	4.0	4.8	4.0	2.4	5.6	7.2	5.6	—
	4	0.0	0.8	1.6	0.8	1.6	0.8	1.6	0.8	3.2	2.4	2.4	5.6	—
	5	0.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	2.4	4.8	4.8	4.8	—
	6	0.0	0.0	0.8	0.8	0.0	0.0	2.4	2.4	3.2	3.2	3.2	4.0	—
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	2.4	2.4	5.6	—
	8	0.8	3.2	3.2	2.4	0.0	0.8	1.6	1.6	3.2	4.8	6.4	8.9	—
	9	1.6	0.8	0.8	0.0	0.0	0.8	0.0	0.0	3.2	4.8	8.0	8.0	—
	10	0.0	0.0	0.8	0.0	0.0	0.8	0.8	2.4	3.2	3.2	2.4	3.2	—
	11	2.4	1.6	3.2	1.6	0.8	1.6	0.0	1.6	4.8	4.8	6.4	9.7	—
	12	1.6	2.4	2.4	3.2	1.6	0.8	0.8	0.0	4.0	6.4	10.5	9.7	—
	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.8	8.9	14.5	14.5	—
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	12.1	14.5	14.5	—
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	5.6	—
	16	0.8	0.0	0.0	0.0	0.0	0.0	0.8	2.4	0.8	0.8	1.6	2.4	—
	17	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	1.6	1.6	—
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	1.6	4.0	7.2	—
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	3.2	4.8	4.0	—
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	1.6	1.6	3.2	—
	21	1.6	1.6	2.4	3.2	1.6	4.8	6.4	6.4	3.2	4.0	3.2	2.4	—
	22	0.8	0.0	0.8	0.8	0.0	1.6	3.2	1.6	3.2	1.6	2.4	8.0	—
	23	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.0	8.0	8.0	5.6	4.0	—
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.2	4.8	8.0	7.2	—
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	7.2	—
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2	4.8	—
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	0.8	1.6	5.6	2.4	—
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	2.4	4.8	—
	29	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	4.8	4.8	4.0	7.2	—
	30	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.4	2.4	3.2	4.0	6.4	—
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.2	1.6	6.4	—
	Hourly Means.	0.34	0.46	0.59	0.46	0.31	0.54	0.98	1.29	3.02	4.24	5.20	6.37	—

JULY.	Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
	1	12.1	12.1	12.1	12.9	12.9	6.4	1.6	0.0	0.0	0.0	0.0	0.0	4.87
	2	4.8	12.9	13.7	8.0	4.8	3.2	0.8	0.0	0.0	0.0	1.6	3.2	3.14
	3	10.5	8.9	8.9	7.2	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.31
	4	9.7	15.3	14.5	12.1	8.9	4.8	2.4	1.6	0.8	0.8	0.8	0.8	3.92
	5	6.4	12.1	12.9	12.1	8.0	2.4	0.8	0.8	1.6	0.8	0.0	0.0	3.21
	6	3.2	8.0	8.9	9.7	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.41
	7	8.9	11.3	11.3	11.3	4.8	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.62
	8	7.2	8.9	9.7	8.0	6.4	4.8	0.8	0.0	0.0	0.0	0.0	0.0	3.45
	9	6.4	6.4	8.9	11.3	8.9	3.2	0.0	0.0	0.8	0.0	2.4	0.8	3.21
	10	9.7	14.5	13.7	11.3	7.2	1.6	0.0	0.8	0.0	0.0	0.8	1.6	3.25
	11	9.7	14.5	13.7	12.9	13.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	4.43
	12	12.1	9.7	12.9	12.9	9.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	4.30
	13	13.7	11.3	12.9	14.5	12.9	4.0	0.8	0.0	0.0	0.0	0.0	0.0	4.73
	14	12.1	11.3	12.9	12.9	11.3	6.4	2.4	0.0	0.0	0.0	0.0	0.0	4.80
	15	7.2	10.5	8.9	9.7	6.4	4.0	0.8	0.8	0.0	0.0	0.0	0.8	2.51
	16	4.0	8.0	9.7	9.7	6.4	2.4	0.8	0.0	0.0	0.8	0.8	0.0	2.18
	17	7.2	11.3	12.9	8.0	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.24
	18	6.4	14.5	11.3	10.5	9.7	4.0	0.8	0.8	0.0	0.0	0.0	0.0	3.05
	19	6.4	12.9	13.7	12.9	9.7	4.0	1.6	0.0	0.0	0.0	0.0	0.0	3.25
	20	8.0	4.8	3.2	6.4	6.4	1.6	0.0	0.0	0.0	0.0	0.8	1.6	1.73
	21	12.1	12.9	11.3	11.3	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	4.02
	22	10.5	11.3	10.5	9.7	7.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	3.12
	23	10.5	12.9	12.9	9.7	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	3.48
	24	6.4	14.5	16.1	15.3	10.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.75
	25	12.1	9.7	13.7	12.1	6.4	3.2	0.8	0.0	0.0	0.0	0.0	0.0	3.12
	26	9.7	12.9	13.7	10.5	6.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.85
	27	7.2	7.2	5.6	8.9	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.24
	28	12.1	11.3	9.7	11.3	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.72
	29	9.7	9.7	14.5	12.1	6.4	1.6	0.0	0.0	0.0	0.0	0.8	0.0	3.25
	30	7.2	12.9	12.1	11.3	11.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.25
	31	9.7	11.3	11.3	10.5	9.7	3.2	0.0	0.0	0.0	0.0	0.0	1.6	2.95
	Hourly Means.	8.80	11.15	11.55	10.87	8.09	2.86	0.46	0.15	0.10	0.08	0.28	0.39	3.27

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

JULY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	4	2	0	0	0	2	3	3	2	1	2	2	—
2	3	2	2	3	1	2	1	1	1	1	1	3	—
3	6	5	4	2	8	9	7	9	6	2	5	6	—
4	2	1	4	3	4	6	6	7	8	6	7	6	—
5	3	5	3	1	1	4	3	0	1	2	5	6	—
6	8	3	3	2	2	4	3	1	2	2	1	3	—
7	3	4	8	2	2	4	9	9	7	7	7	7	—
8	6	1	0	1	1	2	7	6	7	6	4	4	—
9	4	3	1	1	0	3	1	1	3	6	6	9	—
10	4	2	1	1	2	6	4	3	1	1	3	3	—
11	2	1	0	0	1	3	3	4	2	1	1	2	—
12	2	2	3	1	2	4	8	1	2	2	2	6	—
13	2	1	1	1	1	2	3	0	0	0	3	10	—
14	2	1	0	0	0	2	1	1	1	1	1	1	—
15	2	1	1	0	0	5	2	3	4	8	7	4	—
16	6	3	5	10	10	10	10	10	7	8	9	7	—
17	6	10	9	6	2	8	10	5	3	10	3	4	—
18	4	1	2	1	1	3	3	1	1	1	3	3	—
19	0	0	0	2	1	2	1	0	1	0	6	4	—
20	6	7	5	4	3	10	2	1	0	1	5	5	—
21	10	10	10	9	5	5	6	6	7	5	3	5	—
22	6	1	6	9	6	7	3	1	7	7	6	4	—
23	2	1	0	1	2	4	1	0	0	1	1	3	—
24	0	0	2	3	2	4	0	1	1	1	0	1	—
25	6	7	5	4	2	4	2	1	1	2	4	4	—
26	10	8	8	8	8	6	4	2	1	2	3	4	—
27	0	0	0	0	7	7	3	1	0	0	0	1	—
28	10	8	5	6	4	6	8	1	2	5	4	6	—
29	5	2	2	2	2	4	1	0	1	1	1	1	—
30	2	1	1	0	0	5	4	3	4	3	6	5	—
31	2	2	3	8	8	6	4	2	2	3	7	4	—
Hourly Means.	4.1	3.1	3.0	2.9	2.8	4.8	4.0	2.7	2.7	3.1	3.7	4.3	—

JULY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	5	5	4	3	2	1	1	0	2	4	3	9	2.5
2	4	5	5	4	4	6	5	6	10	6	5	3	3.5
3	3	3	2	1	1	1	2	1	3	3	2	2	3.9
4	4	1	3	3	3	8	3	6	6	8	4	3	4.7
5	7	1	3	1	1	1	1	3	8	3	4	6	3.0
6	6	4	3	2	2	1	1	0	2	6	4	4	2.9
7	8	8	8	9	9	8	1	0	0	1	2	2	5.2
8	3	4	5	5	4	3	2	2	3	8	3	2	3.7
9	8	8	9	8	7	7	5	7	6	7	9	6	5.2
10	4	1	1	1	1	1	1	2	1	0	2	0	1.9
11	2	2	2	1	1	4	7	7	6	9	9	9	3.3
12	7	8	7	8	8	6	1	2	1	1	1	2	3.6
13	8	8	6	8	6	4	3	2	2	1	3	2	3.2
14	2	2	3	2	1	2	2	0	0	0	1	1	1.1
15	7	6	5	4	6	7	9	9	10	7	9	9	5.2
16	5	6	4	3	2	2	10	7	10	6	5	6	6.7
17	3	2	3	4	3	4	3	10	10	10	10	7	6.0
18	4	3	3	3	2	3	2	2	3	3	4	6	2.6
19	3	2	1	1	7	6	10	10	10	10	9	10	4.0
20	7	1	1	1	1	1	0	10	10	9	9	9	4.5
21	4	3	2	1	0	2	2	6	9	8	7	9	5.6
22	6	5	5	3	5	6	2	9	4	2	2	4	4.8
23	4	2	4	1	1	1	2	9	8	7	9	3	2.8
24	3	2	1	1	1	4	3	6	6	9	10	5	2.8
25	1	1	1	1	2	4	2	4	9	6	9	9	3.8
26	3	2	2	3	3	4	2	4	5	7	6	7	4.7
27	2	2	1	3	6	5	4	5	6	6	7	7	3.0
28	2	1	0	1	2	8	7	6	8	4	3	3	4.6
29	1	1	1	1	2	7	7	8	4	9	4	2	2.9
30	1	1	1	1	0	0	6	3	2	2	1	1	2.2
31	7	7	5	6	6	6	6	10	10	10	10	6	5.8
Hourly Means.	4.3	3.5	3.3	3.0	3.2	4.0	3.6	5.0	5.6	5.5	5.4	5.0	3.86

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	8.0	10.2	11.8	8.6	10.2	9.1	12.3	6.4	5.9	3.2	2.7	2.1	—
	2	4.8	4.3	6.4	4.8	5.9	3.8	4.8	3.8	2.1	2.1	2.1	2.7	—
	3	2.7	3.2	2.7	3.2	3.2	4.3	5.4	5.4	6.4	3.2	3.2	2.1	—
	4	8.0	7.5	5.4	4.8	3.8	5.4	4.3	3.8	5.4	2.7	1.6	2.1	—
	5	4.8	4.3	3.8	6.4	5.9	9.1	10.7	8.6	4.8	3.2	2.7	1.6	—
	6	5.9	7.5	6.4	4.8	3.8	5.4	10.2	5.9	4.3	2.1	2.7	2.7	—
	7	7.0	6.4	7.5	5.9	5.4	4.8	8.0	5.4	5.9	1.6	1.1	1.1	—
	8	4.8	4.8	5.4	5.4	5.4	5.9	7.0	8.0	6.4	2.7	2.7	2.1	—
	9	7.0	4.8	8.0	1.6	9.6	9.1	9.6	12.8	9.6	2.7	2.7	2.1	—
	10	4.3	4.3	4.3	5.4	4.8	7.5	5.9	6.4	3.8	2.7	1.1	0.5	—
	11	7.0	7.5	7.0	4.3	2.1	4.8	7.5	8.0	4.8	4.8	2.7	— 1.6	—
	12	5.4	4.8	5.4	4.8	4.8	4.3	7.0	5.4	5.9	2.7	1.1	1.6	—
	13	9.1	7.5	7.5	7.0	4.3	6.4	8.0	—	—	—	—	—	—
	14	9.6	8.6	8.0	10.2	9.1	10.2	17.7	8.0	4.3	2.1	1.1	1.6	—
	15	5.9	5.9	4.8	4.8	9.6	4.3	8.6	7.5	2.7	1.6	1.1	0.5	—
	16	3.2	3.2	3.2	3.2	2.1	1.6	1.6	3.2	5.4	2.1	1.1	1.1	—
	17	4.3	4.3	3.2	3.8	4.3	4.3	4.8	4.8	3.2	— 0.5	— 1.6	0.0	—
	18	—	—	—	—	—	2.1	4.8	4.3	1.6	— 2.1	— 0.5	0.0	—
	19	5.4	4.3	5.4	4.3	3.8	4.8	5.4	2.7	1.6	0.0	0.5	0.0	—
	20	4.3	4.8	6.4	8.0	5.4	4.8	1.6	3.2	1.6	2.1	3.2	0.5	—
	21	3.8	3.8	4.3	4.3	3.8	3.2	3.8	2.7	4.3	2.7	1.6	2.1	—
	22	5.9	4.3	5.4	3.8	3.8	3.8	5.9	4.8	3.8	2.7	1.6	1.6	—
	23	11.8	10.2	7.5	7.0	8.6	9.6	11.2	7.5	2.7	1.6	1.6	1.1	—
	24	5.4	7.5	7.0	5.9	4.8	6.4	10.7	8.6	3.2	1.6	1.6	2.1	—
	25	5.4	4.8	4.3	3.8	5.9	4.8	5.4	5.9	1.6	0.5	0.0	— 0.5	—
	26	5.9	5.4	4.8	5.4	7.0	5.9	2.7	—	—	—	—	—	—
	27	—	—	—	—	—	—	—	5.9	4.3	— 0.5	1.1	0.0	—
	28	7.5	7.5	5.9	6.4	7.0	4.8	4.3	4.3	— 2.7	— 0.5	— 2.1	0.0	—
	29	9.6	9.6	10.2	10.7	14.5	10.7	11.8	9.6	2.7	1.1	2.7	0.5	—
	30	8.0	8.0	8.6	8.0	5.9	5.4	7.0	4.8	— 1.6	1.1	1.1	1.1	—
	31	12.3	11.2	12.3	13.9	8.0	11.8	5.4	7.5	1.6	— 1.6	1.6	0.0	—
Hourly Means.		6.5	6.2	6.3	5.9	6.0	5.9	7.1	6.0	3.6	1.6	1.5	1.1	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	2.1	2.1	1.6	2.1	3.8	4.8	3.2	6.4	5.9	8.0	6.4	5.4	5.9
	2	2.1	1.6	1.6	1.6	1.6	3.2	4.8	5.4	7.0	6.4	5.4	2.1	3.8
	3	2.7	1.6	1.6	1.6	1.6	2.7	3.8	10.7	8.6	10.7	10.7	9.6	4.6
	4	0.5	0.5	— 0.5	1.6	1.6	3.8	6.4	7.0	7.5	5.9	5.9	7.5	4.3
	5	1.1	1.6	0.0	2.1	2.1	4.3	7.0	8.0	8.6	4.3	7.5	6.4	5.0
	6	1.6	1.1	1.1	1.1	2.7	1.1	4.3	6.4	9.1	9.1	8.6	9.1	4.9
	7	1.1	1.1	1.6	1.6	1.6	2.1	5.4	6.4	10.2	7.5	7.0	6.4	4.7
	8	2.7	2.7	1.6	1.6	1.6	2.7	2.1	5.4	10.7	9.1	8.6	7.0	4.9
	9	2.1	1.6	— 1.1	1.6	N	2.7	4.3	2.7	8.6	5.9	4.3	3.2	5.0
	10	1.6	0.0	— 0.5	— 0.5	— 0.5	2.1	2.1	11.2	12.8	9.1	10.2	8.0	4.4
	11	— 1.1	— 1.1	0.5	— 1.1	— 1.6	— 0.5	2.7	7.0	7.0	8.6	6.4	5.9	3.8
	12	1.6	1.6	— 1.6	0.5	0.5	0.5	4.8	10.7	9.6	9.1	10.2	10.2	4.6
	13	—	—	—	—	—	—	4.3	6.4	8.6	7.0	8.6	10.2	7.3
	14	1.6	1.1	— 7.5	— 3.2	— 0.5	2.7	4.3	7.5	7.5	4.8	7.0	6.4	5.1
	15	0.0	0.0	— 2.7	— 0.5	— 8.0	0.5	4.3	4.3	1.6	2.1	3.8	2.7	2.7
	16	1.1	1.6	0.0	— 0.5	1.1	1.6	4.8	4.8	6.4	6.4	4.3	4.8	2.8
	17	— 0.5	0.0	— 1.1	— 0.5	0.0	1.1	2.7	7.0	7.5	7.5	4.8	4.3	2.8
	18	0.0	— 0.5	— 1.6	— 1.1	— 1.1	1.1	2.1	5.4	6.4	5.9	4.3	5.9	1.9
	19	0.5	— 1.6	— 0.5	—	—	—	2.7	2.7	4.3	4.3	3.2	5.4	2.8
	20	— 1.6	1.1	1.1	0.5	— 0.5	2.1	5.4	9.1	8.6	11.8	10.2	5.4	4.1
	21	0.0	— 1.6	0.5	1.1	2.1	1.6	4.8	5.4	12.8	10.7	10.2	9.1	4.0
	22	1.6	1.1	2.1	1.6	2.1	2.7	4.8	4.8	4.3	3.2	7.5	10.7	3.9
	23	— 0.5	0.0	0.0	— 1.1	1.6	2.1	2.1	2.7	5.4	5.9	9.6	7.0	4.8
	24	1.1	— 0.5	— 1.6	— 2.1	— 1.1	0.5	3.8	6.4	4.8	5.4	6.4	5.4	3.9
	25	— 0.5	0.5	— 0.5	0.0	— 1.6	0.0	2.1	4.3	5.9	5.9	5.9	6.4	2.9
	26	—	—	—	—	—	—	—	—	—	—	—	—	5.3
	27	2.1	2.7	2.1	— 0.5	— 2.1	1.1	2.7	5.4	7.0	9.1	8.0	8.6	3.4
	28	0.5	1.1	— 1.1	— 4.3	— 1.6	1.1	3.8	4.8	7.0	6.4	8.6	13.9	3.4
	29	1.1	— 1.1	— 1.6	— 1.1	— 1.1	0.0	3.8	6.4	8.6	9.6	9.6	10.2	5.8
	30	2.1	— 2.7	— 4.3	— 0.5	— 1.6	0.5	3.8	8.0	11.2	15.5	13.4	13.9	4.9
	31	0.5	2.7	— 1.6	1.1	0.0	2.1	4.8	8.6	7.0	12.3	11.2	— 0.5	5.5
Hourly Means.		0.9	0.6	— 0.4	0.1	0.1	1.8	3.9	6.4	7.7	7.6	7.6	7.0	4.21

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST. 1	9.51	9.49	9.08	8.86	9.15	9.56	10.11	10.46	10.76	10.25	9.68	8.99	—
2	9.29	8.85	8.65	8.81	8.87	9.42	10.37	10.61	10.55	10.24	9.66	8.96	—
3	9.53	9.30	9.06	9.05	9.20	9.44	9.95	10.35	10.62	10.18	9.48	8.46	—
4	9.71	9.69	9.44	9.31	9.56	9.78	9.97	10.61	10.97	10.71	10.21	9.44	—
5	10.02	9.46	9.30	9.35	9.55	9.87	10.31	10.57	10.81	10.51	10.13	9.63	—
6	9.85	9.25	8.76	8.79	8.82	9.12	9.45	9.66	10.02	9.89	9.30	8.62	—
7	8.70	8.23	7.80	7.81	8.03	8.17	8.94	9.12	9.14	8.60	8.63	8.02	—
8	7.95	7.69	7.31	6.85	7.06	7.32	8.02	8.56	8.96	8.80	8.53	7.88	—
9	8.61	8.39	8.26	8.16	8.34	8.61	9.07	9.28	9.32	9.20	8.84	8.37	—
10	9.30	9.03	8.85	8.85	8.91	9.21	9.84	10.34	10.36	10.19	9.76	9.13	—
11	10.39	10.26	10.19	10.20	10.55	10.71	10.84	11.20	11.45	11.31	10.81	10.25	—
12	10.22	9.59	9.37	9.39	9.45	9.75	10.33	10.71	10.86	10.44	9.80	9.24	—
13	9.13	8.72	8.75	8.84	9.10	9.36	10.16	10.65	11.00	10.38	10.27	9.89	—
14	10.02	9.85	9.64	9.66	10.31	10.72	11.20	11.56	11.66	11.35	10.68	10.13	—
15	11.00	10.78	10.69	10.61	10.72	10.84	11.30	11.51	11.54	11.23	10.58	9.85	—
16	9.78	9.29	8.83	8.86	9.10	9.42	9.87	10.35	10.74	10.49	10.09	9.52	—
17	10.04	9.55	9.30	9.29	9.46	9.70	10.47	11.10	11.15	10.90	10.37	9.71	—
18	10.04	9.71	9.19	9.16	9.29	9.66	10.69	11.16	11.45	11.26	10.82	9.91	—
19	10.30	10.00	9.55	9.56	9.99	10.23	10.44	10.66	10.87	10.72	10.33	9.58	—
20	10.83	10.59	10.31	10.23	10.15	10.64	11.40	12.01	12.35	11.96	11.51	10.78	—
21	11.73	11.12	10.80	10.71	10.67	11.04	11.36	11.77	12.09	11.84	11.42	10.65	—
22	11.25	11.15	10.79	10.61	10.91	11.22	11.64	11.97	12.04	11.83	11.43	10.66	—
23	11.44	10.90	10.73	10.65	10.71	10.94	11.52	12.11	12.35	12.28	11.87	11.20	—
24	11.63	11.26	10.98	10.95	11.08	11.32	11.76	12.25	12.31	12.16	11.52	10.82	—
25	11.76	11.37	11.19	11.06	11.10	11.32	11.73	11.93	12.01	11.89	11.37	10.73	—
26	11.62	11.37	11.49	11.49	11.50	11.66	11.94	12.47	12.58	12.27	11.49	10.69	—
27	9.90	9.44	9.39	9.12	9.49	9.90	10.51	11.05	10.92	10.74	10.20	9.58	—
28	9.72	9.25	8.94	8.88	9.24	9.51	10.59	10.86	10.91	10.84	10.12	9.41	—
29	9.99	9.68	9.44	9.32	9.60	9.98	10.34	11.03	11.47	11.10	10.35	9.69	—
30	9.80	9.53	9.45	9.56	9.68	9.78	10.24	10.60	11.02	10.91	9.98	9.30	—
31	9.57	9.20	9.10	8.84	8.61	8.66	8.90	9.39	9.85	9.71	8.94	8.28	—
Hourly Means.	10.08	9.73	9.50	9.45	9.62	9.90	10.43	10.84	11.04	10.78	10.26	9.59	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST. 1	8.07	7.28	7.22	7.12	7.49	8.10	8.84	9.55	9.89	10.08	10.20	9.84	9.14
2	8.23	7.69	7.39	7.58	7.64	8.05	8.47	8.83	8.98	9.20	9.34	9.41	8.96
3	7.95	7.59	7.08	7.04	7.31	7.73	8.60	9.21	9.74	10.18	10.33	10.16	9.06
4	9.30	8.53	8.08	7.83	7.54	8.05	8.99	9.71	10.14	10.50	10.75	10.45	9.55
5	8.87	8.11	7.81	7.65	8.04	8.27	8.92	9.61	9.98	10.39	10.29	10.21	9.49
6	7.94	7.42	7.07	6.89	7.20	7.49	7.81	8.54	9.18	9.24	9.27	9.05	8.69
7	7.49	6.94	6.55	6.46	6.68	7.02	7.55	8.12	8.62	8.66	8.66	8.57	8.02
8	7.52	6.82	6.13	5.98	6.26	6.71	7.52	8.02	8.47	8.84	9.33	9.08	7.73
9	8.12	7.62	7.27	7.03	7.58	7.92	8.59	9.17	9.41	9.58	9.85	9.86	8.60
10	8.56	7.68	7.39	7.39	7.62	8.42	9.06	9.82	10.21	10.60	10.95	10.60	9.25
11	9.54	8.82	8.68	8.47	8.54	8.75	9.12	9.60	10.19	10.30	10.25	10.08	10.02
12	8.56	8.01	7.57	7.57	7.68	7.86	8.37	9.00	9.53	9.76	9.84	9.75	9.28
13	9.23	8.73	8.57	8.73	9.02	9.28	9.88	10.23	10.15	10.64	10.59	10.28	9.65
14	9.88	9.43	9.22	9.37	9.63	9.90	10.34	10.98	11.42	11.48	11.50	11.46	10.47
15	9.28	8.62	8.46	8.33	8.58	9.27	10.06	10.46	10.53	10.76	10.84	10.39	10.26
16	8.61	7.91	7.53	7.44	7.82	8.41	8.81	9.30	10.01	10.21	10.21	10.13	9.28
17	9.00	8.59	8.11	7.98	8.09	8.41	9.07	9.75	10.73	11.14	11.00	10.50	9.73
18	9.28	8.74	8.23	8.35	8.38	9.03	9.66	10.33	10.58	10.79	10.79	10.78	9.89
19	9.11	8.39	8.09	8.21	8.31	8.58	9.31	10.32	10.93	11.38	11.41	11.17	9.89
20	9.93	9.10	8.63	8.71	9.06	9.67	10.59	10.82	11.36	11.73	11.95	11.71	10.67
21	9.92	9.35	8.68	8.57	8.83	9.28	10.43	11.21	11.38	11.64	11.69	11.57	10.74
22	9.93	9.28	8.86	8.81	9.08	9.71	10.16	11.02	11.48	11.64	11.99	11.79	10.80
23	10.88	10.27	9.77	9.82	9.90	9.97	10.22	10.94	11.59	11.88	12.11	11.99	11.09
24	10.43	9.67	9.26	9.30	9.61	10.07	10.73	11.22	11.83	12.24	12.14	12.14	11.11
25	10.30	9.76	9.32	9.31	9.52	9.90	10.71	11.17	11.48	12.05	12.00	11.88	11.04
26	9.82	9.42	8.86	8.67	8.74	9.00	9.22	9.39	10.10	10.14	10.09	9.94	10.58
27	8.85	8.26	7.93	7.92	8.13	8.66	9.12	9.62	10.00	10.24	10.31	10.09	9.56
28	8.80	8.16	7.99	8.19	8.38	8.81	9.19	9.67	10.14	10.65	10.73	10.50	9.56
29	9.16	8.73	8.53	8.57	8.81	9.06	9.53	10.19	10.45	10.73	10.74	10.29	9.87
30	8.53	8.02	7.56	7.58	7.84	8.30	9.06	9.70	9.97	10.54	10.38	9.86	9.47
31	7.48	6.71	6.16	6.13	6.34	7.00	7.43	8.09	8.47	8.74	8.78	8.46	8.29
Hourly Means.	8.99	8.38	8.00	7.97	8.18	8.60	9.21	9.79	10.22	10.51	10.59	10.39	9.67

STANDARD THERMOMETER.

AUGUST.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	77.2	76.7	75.7	75.0	74.2	73.5	73.7	75.6	78.0	82.3	84.4	85.0	—
2	76.5	75.6	75.0	74.0	73.1	72.9	73.0	75.0	78.8	81.9	84.2	86.2	—
3	75.5	74.8	74.0	73.0	72.0	71.2	71.3	74.0	77.7	81.0	84.0	85.4	—
4	73.1	72.6	71.5	70.7	70.3	69.8	70.8	73.7	77.8	81.5	84.5	86.2	—
5	73.4	73.0	72.1	71.5	70.7	70.0	70.8	74.2	78.2	83.0	85.4	86.8	—
6	74.7	74.0	73.3	72.5	71.8	71.2	72.0	75.1	79.2	83.0	85.5	86.2	—
7	74.6	75.0	75.0	74.8	74.4	73.7	74.4	77.9	81.4	84.4	86.2	86.4	—
8	75.2	74.2	73.7	73.2	73.0	72.5	73.0	77.0	79.7	83.0	85.7	87.8	—
9	75.4	75.0	74.8	74.4	74.0	74.0	74.4	78.2	82.0	84.2	86.0	86.7	—
10	74.9	74.9	74.4	74.0	73.8	73.3	73.8	76.3	78.6	80.8	83.4	85.6	—
11	75.0	74.2	74.0	74.0	74.0	74.0	74.0	74.8	77.0	80.2	83.3	85.1	—
12	73.7	73.1	72.4	71.9	71.1	70.7	71.1	74.0	79.1	82.0	84.4	87.0	—
13	77.0	76.3	76.0	75.8	75.0	74.8	75.0	77.1	80.6	83.3	83.5	83.6	—
14	76.0	75.4	74.9	74.2	74.2	73.5	74.0	78.0	81.1	84.0	86.3	87.2	—
15	74.8	74.0	73.8	74.0	73.6	73.0	73.2	75.2	79.0	82.4	86.5	87.8	—
16	76.1	75.3	74.5	73.8	72.9	72.6	72.9	75.9	79.2	82.0	83.8	85.8	-
17	76.1	75.9	75.5	75.0	74.0	73.9	74.7	78.0	81.0	82.5	84.3	84.0	—
18	75.0	74.2	73.9	73.5	73.0	72.8	73.2	76.1	80.2	82.6	84.1	85.5	—
19	76.6	76.4	76.3	75.8	75.0	74.7	75.2	78.5	82.3	85.2	87.5	87.1	—
20	76.0	75.3	75.0	74.6	74.0	73.2	74.2	77.6	81.6	84.8	86.7	86.6	—
21	73.2	72.5	73.0	72.3	72.5	72.2	72.9	75.8	79.6	83.6	85.9	88.6	-
22	75.5	75.1	74.6	74.0	73.7	73.6	73.3	76.4	81.2	82.6	85.0	85.2	—
23	76.0	75.8	75.2	74.5	74.1	73.9	74.1	77.2	81.0	83.6	85.9	87.9	—
24	76.2	75.8	75.3	74.2	73.5	72.8	73.2	76.2	80.3	84.0	87.3	89.1	—
25	73.0	72.0	71.6	71.0	71.0	70.6	71.8	76.6	81.0	85.4	89.5	92.1	—
26	73.0	72.7	72.9	72.7	72.5	72.0	72.3	75.9	79.8	82.5	84.9	86.9	—
27	74.5	73.7	72.6	72.0	71.3	71.0	72.0	75.6	79.5	83.8	85.9	87.7	—
28	76.7	75.3	74.0	73.6	73.0	72.3	73.0	76.0	80.0	83.7	85.4	86.5	—
29	78.0	77.1	76.7	75.8	75.3	75.0	75.8	78.4	80.1	82.7	84.3	85.3	—
30	75.9	75.1	75.1	75.0	75.0	75.0	76.0	78.5	81.7	82.6	86.2	85.7	—
31	75.9	75.6	75.0	74.0	73.3	72.8	73.1	76.1	80.1	83.2	85.9	86.7	—
Hourly Means.	75.31	74.73	74.25	73.70	73.20	72.79	73.30	76.29	79.90	82.96	85.35	86.57	—

AUGUST.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	85.2	86.2	85.9	85.4	84.0	82.3	80.7	79.5	79.0	78.8	78.5	77.8	79.78
2	86.8	85.8	85.3	83.9	83.4	82.0	81.0	79.4	77.9	76.8	76.4	76.0	79.20
3	85.8	85.9	85.7	85.3	84.0	82.1	79.7	77.9	76.7	76.5	75.3	74.0	78.45
4	87.0	86.0	85.8	84.5	83.5	82.2	80.2	78.5	77.0	76.1	75.0	74.4	78.03
5	85.8	86.1	86.4	84.1	83.0	81.2	80.1	79.0	77.7	77.1	76.2	75.5	78.39
6	85.9	85.7	85.2	83.2	83.1	82.1	81.4	80.8	79.0	77.2	76.5	75.9	78.94
7	87.2	88.0	87.2	85.8	84.6	82.8	81.9	79.8	78.6	77.7	76.6	76.0	80.18
8	86.4	86.2	85.4	85.0	83.7	82.3	81.6	80.4	78.8	77.4	76.8	75.8	79.49
9	85.7	86.0	85.5	84.1	83.8	82.5	80.0	77.5	76.8	76.0	75.6	75.2	79.49
10	85.9	85.0	84.2	84.2	83.1	82.0	81.0	78.7	77.0	76.6	75.6	75.3	78.85
11	88.6	87.7	85.9	85.5	85.0	82.3	80.1	78.2	77.5	75.9	75.0	74.3	78.98
12	86.3	85.6	84.8	84.1	83.4	81.8	81.1	80.6	80.0	79.5	79.3	78.4	78.98
13	86.5	86.3	86.0	85.0	83.9	82.4	81.4	81.0	80.0	79.1	78.5	76.9	80.21
14	87.1	86.6	85.5	84.2	83.1	82.0	81.7	80.5	79.9	76.8	75.6	75.4	79.88
15	87.0	87.0	86.6	85.6	83.7	82.2	81.4	80.9	79.8	78.9	77.7	77.0	79.78
16	86.4	86.4	85.9	85.0	84.0	82.2	80.6	79.8	78.9	78.9	78.6	77.2	79.53
17	84.4	85.0	84.8	84.0	83.0	81.8	81.1	80.4	77.8	76.7	75.5	75.7	79.38
18	86.1	86.3	86.0	85.0	83.0	82.1	81.5	80.2	78.2	77.6	76.5	76.4	79.29
19	88.6	89.0	88.0	85.7	84.5	82.6	81.2	80.2	79.0	77.8	77.1	76.6	80.87
20	87.2	86.4	85.2	84.3	83.8	82.5	80.5	78.9	76.9	76.1	75.0	74.3	79.61
21	87.0	86.8	87.1	87.3	86.0	83.4	81.6	79.7	78.5	77.3	76.3	76.1	79.55
22	85.6	85.4	85.1	83.8	82.2	81.7	81.4	81.2	77.6	76.6	76.0	75.6	79.27
23	87.6	87.4	86.7	84.8	84.0	82.6	81.0	79.4	79.2	78.7	78.3	77.4	80.26
24	88.9	89.0	87.7	88.6	87.0	84.2	81.9	79.1	77.6	76.0	75.4	73.9	80.30
25	88.0	87.2	88.2	87.0	86.2	83.4	80.2	77.8	76.0	75.1	74.1	73.3	79.25
26	86.2	86.4	85.5	85.0	84.3	83.0	81.2	79.2	78.0	77.4	76.0	75.0	78.97
27	89.3	88.5	86.7	84.8	84.0	82.8	82.2	81.4	80.5	79.7	78.7	77.4	79.82
28	85.5	86.0	85.1	84.3	84.0	82.5	81.7	81.3	81.0	80.2	79.6	79.0	79.99
29	85.2	85.5	84.5	83.3	82.1	81.7	81.6	80.0	78.3	77.0	76.7	76.2	79.86
30	86.0	86.1	84.6	84.1	83.0	81.9	81.1	80.2	79.8	78.6	77.1	76.1	80.02
31	85.7	86.1	85.3	85.0	83.8	82.3	81.0	80.0	79.5	79.0	77.7	77.5	79.78
Hourly Means.	86.61	86.50	85.86	84.90	83.88	82.35	81.06	79 73	78.47	77.52	76.68	75.99	79.50

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	875	883	915	905	913	911	877	832	806	647	598	677	
	2	891	905	914	921	937	920	902	855	733	666	554	528	—
	3	823	805	811	835	875	865	848	820	722	655	584	519	—
	4	826	833	847	864	863	853	811	730	640	603	535	499	—
	5	852	843	866	856	872	889	872	771	694	592	560	525	—
	6	888	895	903	910	918	918	909	847	720	624	577	569	—
	7	888	880	871	871	896	912	879	790	719	616	599	631	—
	8	872	896	912	929	920	929	920	835	736	664	598	566	—
	9	905	913	913	921	930	912	904	836	749	667	641	643	—
	10	947	939	947	956	956	955	956	906	853	775	685	609	—
	11	913	921	903	921	930	938	921	913	858	788	659	559	—
	12	912	894	885	892	900	908	900	862	741	666	585	537	
	13	900	906	915	923	930	930	905	867	761	685	679	699	—
	14	824	847	871	904	904	920	912	867	754	666	545	584	—
	15	913	930	929	921	938	937	937	922	800	694	500	571	
	16	865	872	862	869	876	875	859	793	727	700	639	549	
	17	874	865	864	872	896	912	897	814	755	655	616	648	
	18	871	896	912	911	920	919	911	833	731	656	681	635	—
	19	866	874	882	898	914	930	922	837	721	658	576	611	
	20	898	905	904	904	912	920	913	759	713	612	566	590	—
	21	903	919	911	928	910	919	894	824	728	595	551	511	
	22	824	840	846	853	861	869	877	826	712	675	613	639	
	23	873	872	880	904	912	921	904	836	656	601	514	513	—
	24	849	856	847	870	886	893	886	801	709	553	481	442	—
	25	799	831	848	873	881	899	874	748	655	511	339	304	—
	26	826	851	834	825	825	823	816	752	671	582	532	496	—
	27	854	861	868	875	883	882	866	783	670	514	484	444	—
	28	842	864	895	886	886	893	860	801	722	608	535	546	—
	29	844	858	833	824	847	830	799	752	728	647	596	645	
	30	792	831	839	863	863	830	761	702	619	584	533	591	—
	31	792	783	781	787	776	791	800	762	687	580	539	561	
Hourly Means.		865	873	878	886	895	897	880	815	725	637	571	561	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	652	593	561	583	693	736	775	816	823	831	838	860	775
	2	525	573	583	614	632	693	710	756	789	833	825	841	754
	3	567	537	506	553	634	626	705	751	794	801	839	836	721
	4	470	569	556	617	639	653	673	730	787	793	830	829	710
	5	578	568	558	655	711	740	766	785	820	835	857	872	747
	6	617	616	626	703	690	757	776	775	808	827	842	864	774
	7	622	577	610	647	656	738	777	802	821	828	841	856	764
	8	643	624	666	670	726	778	821	834	830	851	866	889	791
	9	680	655	672	688	727	766	773	892	907	915	923	930	811
	10	668	644	687	680	718	750	776	793	859	858	898	905	822
	11	455	535	598	566	514	639	708	791	805	841	871	887	768
	12	619	622	637	641	691	707	790	819	840	847	839	861	775
	13	643	637	636	657	693	715	769	797	825	847	830	818	790
	14	616	614	635	675	698	729	763	811	743	882	914	905	774
	15	614	583	558	584	639	694	733	711	766	801	836	858	765
	16	576	570	537	613	589	687	724	765	807	807	814	851	743
	17	695	645	651	660	710	756	775	781	751	802	864	872	776
	18	588	552	624	677	703	736	756	781	798	805	842	850	775
	19	518	538	543	604	642	689	755	774	808	844	858	882	756
	20	611	638	653	650	667	690	767	815	850	849	897	878	773
	21	615	632	597	492	525	585	669	727	746	773	802	793	731
	22	640	620	632	686	736	777	776	798	820	842	856	864	770
	23	576	557	547	592	633	668	668	727	756	783	806	827	730
	24	524	518	517	360	382	457	539	646	675	729	750	778	665
	25	468	492	415	452	453	547	617	676	737	773	779	793	657
	26	539	576	590	575	610	604	690	749	781	788	825	855	707
	27	459	470	535	586	620	647	672	705	745	765	799	835	701
	28	584	532	588	635	596	628	699	740	746	781	802	816	729
	29	571	554	554	618	653	671	692	773	821	827	794	801	731
	30	598	610	631	596	578	700	718	737	751	777	796	794	712
	31	586	533	571	600	601	694	747	781	795	808	852	844	710
Hourly Means.		584	580	589	611	637	686	728	769	794	818	838	850	749

DIRECTION OF THE WIND.

AUGUST.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	NE	C	C	NE	C	NE	NE	NE	ESE	ENE	ENE	NE
2	C	NE	NE	NE	C	C	NE	NE	S	S	E	ENE
3	C	NE	NE	NE	NE	NE	NE	E	ESE	SE	ENE	E
4	ESE	C	ESE	ESE	ESE	ESE	S	SSW	SSW	S	E	ESE
5	C	C	C	C	C	C	NE	SE	SSW	ESE	ESE	E
6	C	C	C	C	C	C	C	S	SSW	E	ESE	E
7	NE	NE	NE	C	C	C	NE	ENE	ESE	E	E	NE
8	C	C	SSE	C	C	C	C	SSE	SE	SE	E	ENE
9	C	NE	NE	C	NE	NE	NE	NE	ESE	ENE	NE	N
10	C	C	C	C	C	C	C	SW	SW	E	ESE	E
11	C	C	SSW	SSW	S	SSE	SSE	C	SSE	S	S	E
12	C	NE	C	C	C	C	NE	NE	ESE	E	ENE	ESE
13	C	C	C	C	NE	NE	NE	NE	NE	NE	ENE	NE
14	C	C	C	NNE	C	C	NNE	E	SE	ESE	SSE	ESE
15	C	SW	SW	SW	C	SW	SW	SW	SW	WSW	SSE	NE
16	NE	NE	NE	C	NE	NE	NE	NE	S	ESE	E	NE
17	C	NE	NE	C	NE	C	NE	ESE	SE	ESE	SSE	ESE
18	ENE	ENE	ENE	ENE	C	C	ENE	ENE	ENE	ENE	NE	NE
19	SE	SE	SE	C	SE	SE	SE	SE	SSE	S	ESE	ENE
20	ENE	C	ENE	C	ENE	C	ENE	ENE	ESE	E	E	E
21	NE	NE	NE	NE	C	NE	NE	NE	ESE	SE	E	E
22	C	C	NE	NE	NE	NE	NE	NE	E	ENE	E	NNE
23	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	ESE	SE	SE	SE
24	C	NE	NE	NE	C	NE	NE	SSE	SSE	E	ENE	E
25	C	E	E	C	C	C	E	S	SSW	S	E	NE
26	NE	NE	NE	NE	NE	NE	NE	NE	SSE	SW	WSW	SSE
27	NE	NE	NE	C	C	NE	NE	NE	NE	SE	SE	NE
28	C	NE	NE	C	C	NNE	NNE	NNE	ESE	S	NE	N
29	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NW	N
30	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	WSW	SSW
31	SW	SW	SW	SW	SW	C	SW	C	SW	E	E	NE

AUGUST.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NE	NNE	NNE	NE	ENE	NE	NE	NE	C	C	NE	C
2	NNE	NE	NE	ENE	ENE	NE	NE	C	C	C	C	C
3	N	NE	NNE	NE	NE	ENE	C	C	C	C	C	ENE
4	E	NNE	NNE	NE	NE	NE	NE	C	C	C	C	C
5	NE	NE	NE	NE	NE	ENE	ENE	ENE	C	C	C	C
6	NE	NNE	NE	NNE	NE	NE	NE	NE	NE	NE	NE	C
7	NNE	NE	NE	NE	NE	NE	NE	SSE	SSE	SSE	SSE	C
8	NE	NNE	NE	NE	NE	NE	C	NE	NE	NE	NE	NE
9	NE	NE	NNE	NNE	NE	NNE	SW	SW	SW	SW	SW	C
10	NE	N	NE	NE	NE	NNE	NNE	NE	SSW	SSW	SSW	C
11	ESE	ENE	NE	NE	NE	NE	NE	NE	C	NE	C	C
12	NE	N	NNE	NE	NE	NE	NE	C	C	NE	NE	C
13	NNE	NE	NNE	N	NNE	NNE	NNE	C	C	NNE	NNE	NNE
14	N	N	NNE	NE	N	N	N	C	SW	SW	SW	SW
15	NE	N	NNE	NE	NE	NE	NE	NE	NE	C	NE	NE
16	NNE	NE	NE	NNE	NE	NE	NE	NE	C	C	C	C
17	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE
18	NE	NNE	NE	ENE	NE	NE	NE	SE	SE	SE	SE	SE
19	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	C	C	ENE	ENE
20	NE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
21	N	NNE	NNE	NE	NE	NE	NE	NE	NE	C	NE	NE
22	N	NE	NNE	NNE	NE	NE	NE	NE	SSW	SSW	SSW	SSW
23	NE	NE	NE	NE	ENE	NE	NE	NE	C	C	C	C
24	NE	NNE	NE	E	E	E	E	E	C	C	E	C
25	NNE	N	NE	NE	NE	NE	NE	C	NE	NE	NE	NE
26	NE	NNE	NE	NE	NE	NE	NE	C	NE	NE	NE	NE
27	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	C	C	C	C
28	NNE	NE	NNE	NE	NE	NE	NE	ENE	C	C	C	C
29	NE	NE	NE	NNE	NNE	N	N	N	N	W	WSW	WSW
30	NE	NNE	NNE	NE	NE	NE	NE	C	NE	NE	WSW	SW
31	NNE	NE	NE	NE	NE	NE	NE	NE	NE	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	0.8	0.0	0.0	0.8	0.0	0.8	1.6	0.8	1.6	3.2	4.8	8.9	—
	2	0.0	0.8	0.8	0.8	0.0	0.0	0.8	0.8	3.2	3.2	5.6	8.0	—
	3	0.0	1.6	3.2	1.6	1.6	0.8	1.6	3.2	4.8	4.8	6.4	5.6	—
	4	2.4	0.0	0.8	1.6	1.6	2.4	4.8	8.0	8.0	4.8	11.3	9.7	—
	5	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	4.8	8.0	12.9	13.7	—
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	6.4	8.9	12.1	11.3	—
	7	1.6	0.8	0.8	0.0	0.0	0.0	1.6	6.4	12.9	15.3	12.1	12.9	—
	8	0.0	0.0	0.8	0.0	0.0	0.0	0.0	2.4	3.2	4.0	10.5	12.9	—
	9	0.0	1.6	0.8	0.0	1.6	0.8	1.6	2.4	4.8	4.8	8.9	9.7	—
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.4	6.4	9.7	9.7	—
	11	0.0	0.0	1.6	0.8	3.2	0.8	0.8	0.0	2.4	3.2	5.6	9.7	—
	12	0.0	0.8	0.0	0.0	0.0	0.0	0.8	0.8	4.8	5.6	4.8	9.7	—
	13	0.0	0.0	0.0	0.0	1.6	0.8	0.8	1.6	3.2	4.0	3.2	8.0	—
	14	0.0	0.0	0.0	0.8	0.0	0.0	1.6	4.0	5.6	6.4	6.4	6.4	—
	15	0.0	0.8	0.8	1.6	0.0	0.8	1.6	1.6	3.2	4.0	8.0	11.3	—
	16	1.6	0.8	1.6	0.0	3.2	1.6	4.0	5.6	6.4	7.2	4.8	6.4	—
	17	0.0	1.6	0.8	0.0	0.8	0.0	2.4	2.4	4.0	3.2	4.0	6.4	—
	18	4.0	4.0	1.6	0.8	0.0	0.0	0.8	0.8	6.4	6.4	10.5	12.1	—
	19	0.8	0.8	0.8	0.0	0.8	1.6	1.6	3.2	6.4	8.9	13.7	15.3	—
	20	0.8	0.0	1.6	0.0	0.8	0.0	1.6	4.8	10.5	12.9	9.7	11.3	—
	21	0.8	1.6	0.8	1.6	0.0	0.8	2.4	4.0	11.3	10.5	13.7	15.3	—
	22	0.0	0.0	0.8	1.6	2.4	0.8	1.6	0.8	8.0	12.1	10.5	12.1	—
	23	1.6	0.8	0.8	0.8	0.8	0.8	3.2	1.6	9.7	10.5	9.7	11.3	—
	24	0.0	0.8	1.6	1.6	0.0	2.4	1.6	4.0	4.8	10.5	14.5	17.7	—
	25	0.0	0.8	0.8	0.0	0.0	0.0	3.2	7.2	4.8	9.7	17.7	18.5	—
	26	1.6	4.0	4.8	5.6	3.2	4.0	4.0	6.4	6.4	4.8	5.6	7.2	—
	27	0.8	0.8	0.8	0.0	0.0	1.6	2.4	3.2	3.2	7.2	7.2	7.2	—
	28	0.0	0.8	1.6	0.0	0.0	1.6	2.4	2.4	5.6	5.6	4.8	6.4	—
	29	0.8	3.2	3.2	1.6	1.6	3.2	3.2	3.2	3.2	4.0	4.0	6.4	—
	30	6.4	4.8	3.2	1.6	0.8	5.6	4.8	6.4	7.2	5.6	7.2	6.4	—
	31	7.2	6.4	5.6	6.4	4.8	0.0	0.8	0.0	4.0	4.8	8.9	14.5	—
Hourly Means.		1.01	1.21	1.29	0.95	0.93	1.01	1.94	3.17	5.72	6.79	8.67	10.39	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	12.1	12.9	15.3	15.3	12.9	4.8	3.2	0.8	0.0	0.0	0.8	0.0	4.23
	2	13.7	16.1	16.1	16.1	12.1	4.0	1.6	0.0	0.0	0.0	0.0	0.0	4.32
	3	10.5	15.3	13.7	10.5	7.2	3.2	0.0	0.0	0.0	0.0	0.0	2.4	4.08
	4	11.3	12.1	13.7	12.9	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	4.86
	5	12.9	11.3	16.1	12.9	12.1	8.0	4.0	0.8	0.0	0.0	0.0	0.0	5.20
	6	14.5	12.9	16.1	16.1	13.7	6.4	1.6	1.6	1.6	1.6	0.8	0.0	5.40
	7	13.7	9.7	19.3	17.7	15.3	7.2	1.6	4.8	6.4	2.4	0.8	0.0	6.80
	8	12.9	14.5	16.1	16.1	12.1	5.6	0.0	1.6	2.4	1.6	0.8	0.8	4.93
	9	14.5	16.1	14.5	12.9	8.9	2.4	8.0	2.4	2.4	3.2	1.6	0.0	5.16
	10	11.3	16.1	14.5	16.1	12.1	6.4	3.2	6.4	5.6	2.4	1.6	0.0	5.40
	11	11.3	12.9	19.3	17.7	13.7	7.2	3.2	1.6	0.0	0.8	0.0	0.0	4.83
	12	14.5	16.1	16.1	16.1	12.9	6.4	3.2	0.0	0.0	0.8	1.6	0.0	4.79
	13	11.3	12.9	13.7	12.9	9.7	5.6	0.8	0.0	0.0	0.8	1.6	1.6	3.92
	14	12.9	15.3	19.3	12.1	8.9	4.0	0.8	0.0	4.8	2.4	1.6	1.6	4.79
	15	13.7	15.3	17.7	16.9	12.9	5.6	1.6	1.6	0.8	0.0	0.8	0.8	5.06
	16	10.5	14.5	16.9	12.9	11.3	4.8	0.8	0.8	0.0	0.0	0.0	0.0	4.82
	17	16.1	14.5	14.5	14.5	12.1	6.4	4.8	4.0	4.0	4.0	4.8	3.2	5.35
	18	13.7	13.7	16.9	18.5	13.7	8.9	3.2	3.2	3.2	1.6	0.8	0.8	6.07
	19	13.7	20.9	20.9	20.1	17.7	12.1	6.4	3.2	0.0	0.0	0.8	0.8	7.10
	20	15.3	19.3	19.3	19.3	8.9	8.0	2.4	1.6	3.2	1.6	1.6	0.8	6.47
	21	12.9	16.1	17.7	15.3	11.3	9.7	1.6	0.8	0.8	0.0	0.8	0.8	6.28
	22	16.1	16.1	16.1	15.3	15.3	6.4	1.6	5.6	8.9	4.8	5.6	4.0	6.94
	23	16.1	17.7	20.1	16.1	14.5	9.7	2.4	0.8	0.0	0.0	0.0	0.0	6.21
	24	17.7	12.9	20.9	20.1	15.3	8.9	4.0	0.8	0.0	0.0	0.8	0.0	6.70
	25	15.3	14.5	19.3	17.7	12.1	3.2	0.8	0.0	1.6	1.6	3.2	1.6	6.40
	26	8.0	14.5	13.7	13.7	11.3	4.8	0.8	0.0	0.8	0.8	3.2	2.4	5.48
	27	12.9	16.1	16.1	15.3	13.7	4.8	1.6	0.8	0.0	0.0	0.0	0.0	4.82
	28	14.5	16.1	15.3	17.7	16.1	10.5	8.0	3.2	0.0	0.0	0.0	0.0	5.53
	29	12.1	13.7	14.5	11.3	6.4	3.2	0.8	1.6	4.8	8.0	8.0	6.4	5.36
	30	11.3	16.1	17.7	16.1	13.7	8.0	1.6	0.0	1.6	5.6	9.7	11.3	7.20
	31	15.3	19.3	18.5	16.9	16.1	8.0	4.0	2.4	0.8	0.0	0.0	0.0	6.86
Hourly Means.		13.31	15.02	16.77	15.58	12.27	6.37	2.55	1.63	1.73	1.42	1.65	1.27	5.53

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	3	7	4	0	1	1	2	3	5	3	4	4	—
	2	5	3	2	1	2	1	2	1	1	1	3	3	—
	3	9	9	7	5	2	4	2	1	4	5	1	0	—
	4	2	1	1	0	0	4	2	1	2	2	5	4	—
	5	2	3	1	0	1	2	2	1	1	1	3	5	—
	6	2	1	1	1	0	3	1	0	0	1	4	6	—
	7	9	10	6	6	4	5	3	1	1	2	7	7	—
	8	1	0	1	0	0	1	1	1	1	6	3	6	—
	9	2	1	1	0	2	4	3	1	4	5	4	3	—
	10	5	3	3	2	3	4	9	9	6	3	5	6	—
	11	1	3	9	10	10	10	6	10	10	10	8	7	—
	12	4	1	1	1	1	4	0	0	0	1	2	3	—
	13	1	2	2	1	1	2	1	1	1	6	6	9	—
	14	2	3	2	1	1	7	7	1	1	1	4	4	—
	15	2	1	0	2	1	3	4	2	2	3	2	3	—
	16	3	2	2	1	2	1	3	3	4	5	6	6	—
	17	6	7	4	4	3	4	2	2	4	8	2	7	—
	18	2	2	1	0	0	1	1	1	7	6	5	4	—
	19	9	10	8	4	3	4	3	2	1	2	4	4	—
	20	1	4	2	0	0	2	3	1	2	4	5	6	—
	21	3	2	3	4	7	3	7	4	3	2	2	3	—
	22	1	7	4	6	7	4	3	3	6	8	6	5	—
	23	10	9	6	6	5	4	1	1	1	1	1	1	—
	24	6	7	5	2	2	3	4	1	0	0	2	2	—
	25	1	2	0	0	1	2	2	1	1	1	0	1	—
	26	3	7	7	7	6	7	3	1	1	2	2	2	—
	27	4	2	2	1	4	1	2	1	1	0	1	2	—
	28	6	1	1	0	6	3	1	1	1	1	6	6	—
	29	4	7	6	7	9	8	4	6	9	9	9	10	—
	30	4	9	9	10	10	9	8	6	3	9	9	7	—
	31	10	9	7	2	1	1	1	1	1	1	2	4	—
Hourly Means.		4.0	4.4	3.5	2.7	3.1	3.6	3.0	2.2	2.7	3.5	4.0	4.5	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	2	2	3	2	2	4	6	7	5	5	5	7	3.6
	2	3	2	2	3	7	9	5	4	3	3	9	4	3.3
	3	3	1	0	0	2	2	2	3	6	6	3	2	3.3
	4	5	1	1	1	1	3	3	1	5	2	3	2	2.2
	5	4	4	4	4	4	4	6	4	5	9	4	3	3.2
	6	3	4	3	8	7	9	9	2	2	1	1	1	2.9
	7	6	4	2	2	2	3	2	3	2	1	1	1	3.8
	8	1	1	1	1	2	3	6	3	2	2	1	2	1.9
	9	6	7	5	1	4	6	6	10	10	8	7	7	4.5
	10	4	3	3	4	4	4	8	6	10	9	7	6	5.3
	11	4	3	3	4	2	3	1	1	1	2	1	1	5.0
	12	3	1	2	1	1	5	4	8	8	5	3	2	2.5
	13	2	1	1	1	2	6	10	10	2	10	4	2	3.5
	14	4	4	1	1	1	3	2	3	10	10	4	3	3.3
	15	1	1	2	2	4	4	2	10	6	7	6	5	3.1
	16	3	4	3	2	2	3	3	4	6	9	9	3	3.7
	17	5	4	2	1	3	2	5	8	10	10	10	3	4.8
	18	1	1	1	8	6	8	7	7	9	9	9	7	4.3
	19	7	6	4	6	4	6	2	1	1	2	1	3	4.0
	20	5	2	2	3	2	2	2	1	1	1	4	1	2.3
	21	3	2	2	4	3	4	1	0	0	0	0	9	3.0
	22	4	2	3	4	4	9	8	9	7	4	9	9	5.5
	23	2	1	7	9	8	3	2	3	10	10	10	2	4.7
	24	4	1	1	1	4	4	3	2	1	1	1	0	2.4
	25	1	1	1	0	1	1	1	2	1	1	1	1	1.0
	26	7	3	2	3	4	3	4	6	5	5	3	0	3.9
	27	3	2	1	1	2	3	7	8	9	6	4	5	3.0
	28	2	1	1	3	7	10	9	9	10	10	9	4	4.5
	29	7	5	6	8	10	10	10	10	10	10	10	9	8.0
	30	4	3	2	4	4	4	7	9	10	10	10	10	7.1
	31	3	2	2	3	4	4	1	1	2	2	2	1	2.8
Hourly Means		3.6	2.5	2.4	3.1	3.6	4.6	4.6	5.0	5.5	5.5	4.9	3.7	3.76

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

AUGUST.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	7.0	10.2	9.6	9.1	8.0	7.5	9.6	4.8	1.6	— 2.1	2.1	0.0	—
2	10.7	8.0	8.0	8.0	10.7	8.6	12.3	4.3	— 1.6	— 1.1	1.6	— 2.7	—
3	7.5	5.9	5.4	4.8	5.4	7.0	6.4	—	—	—	—	— 1.1	—
4	9.1	9.1	9.1	7.5	8.0	10.7	5.9	4.3	3.2	0.5	— 0.5	2.1	—
5	6.4	5.9	6.4	7.0	7.0	5.4	3.2	— 1.1	N	— 0.5	— 2.7	— 1.1	—
6	13.9	9.1	12.8	11.8	14.5	10.7	5.9	5.9	— 3.2	1.6	1.6	2.1	—
7	10.7	8.6	8.0	9.6	11.2	13.4	5.9	5.4	1.1	— 0.5	0.0	— 2.7	—
8	12.8	15.0	9.1	5.9	10.2	N	21.4	5.9	1.6	— 2.1	0.5	0.0	—
9	10.7	11.2	8.6	8.6	9.1	10.7	12.3	7.0	1.1	0.5	1.6	— 0.5	—
10	10.2	12.3	14.5	13.9	21.4	15.0	20.3	8.6	2.7	1.6	1.6	2.7	—
11	7.0	7.5	7.0	14.5	23.0	10.2	8.0	10.7	10.2	2.1	— 4.3	2.7	—
12	12.8	12.3	8.0	10.2	9.6	8.6	6.4	5.9	0.0	2.1	3.2	2.7	—
13	12.8	10.2	10.7	9.1	9.1	6.4	9.6	10.7	1.6	0.0	3.2	2.7	—
14	9.6	10.7	8.6	9.6	10.2	12.8	8.0	4.8	0.0	— 2.7	2.1	1.6	—
15	7.5	6.4	8.0	10.7	5.4	15.5	33.7	11.2	1.6	— 2.1	3.8	2.7	—
16	8.0	5.4	5.4	4.3	5.9	7.0	10.7	5.4	0.0	— 1.1	1.6	2.1	—
17	12.3	9.1	8.6	8.0	11.2	7.5	12.3	5.4	— 3.2	— 3.2	— 1.6	— 1.1	—
18	5.4	5.4	5.4	4.8	6.4	9.1	8.6	5.4	3.2	— 0.5	0.5	— 0.5	—
19	5.4	3.8	5.4	4.8	5.9	7.5	8.6	5.4	— 3.2	— 3.8	— 1.6	— 2.1	—
20	12.3	12.3	10.7	8.6	8.6	8.6	10.7	0.0	— 1.1	— 3.8	— 1.6	— 2.1	—
21	16.6	15.0	13.4	12.3	11.2	9.1	3.8	3.8	0.5	— 1.6	— 0.5	— 0.5	—
22	10.7	9.6	9.1	9.1	8.6	9.6	11.8	4.3	2.7	0.5	— 1.1	— 1.6	—
23	4.8	4.8	3.8	5.4	5.4	11.8	7.5	3.2	— 4.3	— 0.5	1.6	1.6	—
24	9.1	10.2	5.4	5.4	7.5	5.4	7.0	2.7	— 2.7	0.0	0.5	— 3.2	—
25	17.7	11.8	11.2	11.8	10.2	1.6	4.8	6.4	1.6	1.1	— 2.7	N	—
26	9.6	7.0	5.4	4.8	5.9	3.2	— 2.1	6.4	2.1	— 1.6	0.0	— 1.6	—
27	8.0	6.4	8.6	5.9	6.4	8.0	8.0	4.3	— 7.5	— 1.1	1.1	0.5	—
28	10.2	10.2	9.6	9.1	5.9	N	8.0	10.2	0.0	— 2.1	2.1	— 2.1	—
29	11.8	8.6	7.5	5.9	7.0	4.3	3.2	2.1	0.5	— 3.8	1.1	2.1	—
30	4.3	4.3	7.0	1.1	6.4	3.2	2.7	4.3	— 2.1	4.8	1.1	— 1.1	—
31	3.8	4.8	5.4	5.4	5.4	2.7	11.8	8.6	0.0	— 0.5	1.1	— 2.1	—
Hourly Means.	9.6	8.7	8.2	8.0	9.1	8.3	9.2	5.5	0.2	— 0.7	0.5	0.0	—

AUGUST.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	1.6	2.7	0.0	— 0.5	0.0	— 0.5	5.4	5.9	9.1	8.0	9.1	8.6	4.9
2	— 0.5	— 0.5	— 2.7	— 2.7	— 1.1	— 0.5	0.0	9.1	8.6	8.6	12.3	9.6	4.5
3	1.6	— 1.6	— 2.7	— 2.7	— 5.4	— 2.1	1.6	4.8	10.7	8.6	12.3	10.7	3.9
4	— 2.7	— 1.1	— 3.8	— 2.7	— 1.1	0.0	0.0	5.9	7.5	10.2	16.1	6.4	4.3
5	— 0.5	0.0	N	— 3.2	— 1.1	3.2	2.7	4.3	8.0	10.2	8.6	11.2	3.6
6	1.6	1.1	— 2.7	0.5	0.0	7.0	7.5	8.6	6.4	7.5	11.8	10.2	6.1
7	1.6	1.6	— 1.1	4.3	6.4	8.0	11.2	9.1	10.2	8.0	9.1	13.4	6.4
8	— 0.5	0.0	— 1.6	— 1.6	1.6	10.2	13.4	8.6	8.6	8.0	9.6	9.1	6.3
9	— 2.7	— 15.0	16.6	8.0	5.4	10.7	12.8	N	16.1	13.4	— 2.7	7.0	6.5
10	2.7	1.6	— 1.6	— 21.4	3.8	11.2	14.5	6.4	5.4	4.3	2.1	7.0	6.7
11	2.7	4.8	1.6	3.2	4.8	6.4	10.2	13.4	13.4	12.3	13.4	15.5	8.3
12	2.7	1.1	— 1.1	0.5	— 1.1	4.3	5.9	7.5	7.5	9.1	9.1	8.6	5.7
13	3.8	2.7	1.6	1.6	4.3	6.4	11.8	15.0	10.2	13.9	8.0	7.5	7.2
14	2.7	2.7	2.1	1.1	1.6	3.8	8.0	8.0	2.7	— 8.6	7.0	5.9	4.7
15	3.8	1.6	1.6	0.5	— 1.1	4.8	5.4	0.5	3.2	10.7	11.8	5.4	6.4
16	0.5	1.6	— 2.1	— 0.5	— 0.5	2.1	5.9	7.0	18.2	12.8	15.0	7.0	5.1
17	0.5	0.5	— 2.1	0.0	1.1	1.6	6.4	13.9	5.4	3.8	— 7.5	4.8	3.9
18	— 1.1	— 0.5	— 5.4	— 7.5	— 2.7	2.1	3.8	4.3	1.6	2.7	2.7	6.4	2.5
19	— 1.1	— 4.8	— 7.0	— 7.5	— 2.1	— 1.1	2.7	4.3	5.4	9.6	8.6	11.8	2.3
20	— 2.1	— 10.2	— 9.6	N	0.0	4.3	16.1	17.1	10.2	12.3	17.7	16.1	5.9
21	— 0.5	— 2.1	— 3.8	— 4.8	— 3.8	— 0.5	2.7	8.0	5.4	8.0	11.2	10.7	4.7
22	— 3.2	— 1.6	— 7.5	— 10.7	— 0.5	2.7	5.4	6.4	4.3	4.8	4.3	3.8	3.4
23	— 2.1	— 1.6	— 3.8	— 7.5	2.1	2.7	6.4	10.2	14.5	12.3	11.2	12.8	4.1
24	— 8.0	— 7.5	— 7.5	— 8.0	— 4.8	— 4.3	3.2	3.2	6.4	13.9	15.0	16.1	2.7
25	— 3.2	0.0	— 18.7	— 6.4	— 0.5	— 0.5	1.1	11.8	23.0	15.5	12.8	9.6	5.1
26	— 5.4	— 5.4	— 1.1	— 0.5	— 4.8	0.0	1.1	1.6	9.6	16.1	11.2	6.4	2.8
27	— 4.8	— 2.1	5.4	0.0	— 1.6	— 0.5	5.4	4.8	10.7	16.1	23.5	17.7	4.7
28	0.5	— 5.4	— 3.2	— 5.4	— 4.8	1.1	3.8	4.3	7.0	7.0	10.7	15.0	4.0
29	0.0	— 2.7	— 1.1	— 5.4	1.6	0.0	4.3	— 2.7	— 0.5	1.1	— 1.1	2.1	1.9
30	— 1.1	— 8.0	— 1.1	— 3.8	— 0.5	2.1	4.8	7.5	11.8	4.8	6.4	4.3	2.6
31	— 2.1	— 3.8	— 5.9	— 5.4	— 1.6	— 1.1	2.7	3.8	5.4	6.4	7.0	8.6	2.5
Hourly Means.	— 0.5	— 1.7	— 2.6	— 3.0	— 0.3	2.7	6.0	7.1	8.6	8.8	9.2	9.3	4.59

BAROMETRIC PRESSURE.

BAROMETER AT 0°C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	8.15	7.69	7.50	7.41	7.33	7.83	8.42	8.71	8.83	8.81	8.22	7.54	—
	2	7.63	7.17	6.70	6.64	6.85	7.56	8.36	8.70	8.93	8.78	8.14	7.27	—
	3	8.60	8.24	7.87	7.84	7.95	8.56	9.14	9.74	9.94	9.90	9.12	8.29	—
	4	9.46	9.39	9.16	9.14	9.26	9.58	9.90	10.29	10.40	10.15	9.52	9.22	—
	5	9.89	9.35	9.10	9.06	9.30	9.86	10.14	10.58	10.65	10.48	9.73	8.90	—
	6	10.20	9.76	9.56	9.36	9.25	9.51	10.01	10.46	10.78	10.56	9.91	9.40	—
	7	8.99	8.78	8.66	8.59	8.91	9.24	10.02	10.46	10.75	10.69	10.13	9.49	—
	8	9.60	9.25	8.76	8.55	8.79	9.20	9.47	9.91	10.11	9.50	8.76	8.11	—
	9	8.81	8.36	8.16	8.09	8.12	8.53	8.81	9.08	9.39	9 31	8.69	8.18	—
	10	8.61	8.45	8.38	8.27	8.66	8.87	9.15	9.40	9.48	9.06	8.45	7.60	—
	11	7.90	7.66	7.61	7.64	7.91	8.35	8.61	8.67	9.10	9.11	8.48	7.82	—
	12	7.48	7.23	6.79	6.81	7.05	7.49	8.02	8.65	8.85	8.69	8.18	7.81	—
	13	8.16	7.88	7.74	7.57	7.74	8.31	8.43	9.00	9.24	8.89	8.57	8.10	—
	14	9.14	8.63	8.64	8.58	8.81	9.43	9.94	10.15	10.36	10.19	9.34	8.32	—
	15	9.44	9.16	9.19	8.99	9.19	9.75	10.28	10.48	10.89	10.69	10.07	9.67	—
	16	10.14	9.84	9.55	9.45	9.60	10.08	10.72	11.39	11.70	11.41	10.92	10.25	—
	17	10.43	10.10	9.94	9.69	9.80	10.18	11.01	11.61	12.04	11.80	11.09	10.39	—
	18	10.72	10.24	10.01	9.88	9.69	10.10	10.50	10.75	11.14	10.62	10.16	9.62	—
	19	10.66	10.21	10.09	9.87	9.96	10.24	10.60	10.90	10.98	10.81	10.38	9.67	—
	20	11.11	10.88	10.43	10.39	10.54	10.83	11.20	11.67	11.76	11.54	11.04	10.42	—
	21	11.06	10.63	10.48	10.54	10.80	11.08	11.66	12.14	12.33	12.19	11.48	10.82	—
	22	11.14	10.75	10.75	10.54	10.58	11.45	12.20	12.65	12.88	12.71	12.10	11.38	—
	23	11.66	11.48	11.16	11.26	11.34	11.83	12.10	12.29	12.44	12.15	11.53	10.82	—
	24	11.79	11.27	11.03	11.05	11.30	11.30	11.30	11.59	11.71	11.78	11.21	10.39	—
	25	10.48	10.40	10.25	10.10	10.25	10.61	11.13	11.25	11.37	11.15	10.40	9.78	—
	26	10.54	10.44	10.20	10.45	10.50	11.14	11.66	12.06	11.99	11.61	11.11	10.39	—
	27	10.19	9.85	9.70	9.81	10.23	10.84	11.27	11.58	12.02	11.41	10.54	9.94	—
	28	9.84	9.34	8.90	8.93	9.16	9.44	9.76	10.06	10.52	10.24	9.70	8.92	—
	29	8.59	8.43	8.35	8.03	8.26	8.70	9.01	9.68	9.64	9.25	8.63	7.85	—
	30	8.65	8.43	8.21	8.29	8.75	9.35	9.95	10.14	10.30	10.07	9.51	8.76	—
Hourly Means.		9.64	9.31	9.10	9.03	9.20	9.64	10.09	10.47	10.68	10.45	9.84	9.17	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	7.18	6.35	6.24	6.30	6.40	6.82	7.43	7.98	8.62	8.79	8.76	8.50	7.74
	2	6.67	6.15	6.02	6.12	6.32	7.08	7.56	8.48	9.14	9.27	9.40	9.24	7.67
	3	7.90	7.16	6.91	7.17	7.55	8.16	8.78	9.45	9.65	10.31	10.39	9.95	8.69
	4	8.23	7.76	7.24	7.24	7.47	8.02	8.90	9.71	10.02	10.38	10.43	10.14	9.21
	5	7.88	7.24	6.80	6.95	7.26	8.33	8.89	9.53	9.95	10.40	10.71	10.39	9.22
	6	9.04	8.55	7.90	7.82	8.01	8.42	9.10	9.66	9.87	9.91	10.00	9.57	9.44
	7	8.78	8.09	7.83	7.54	8.36	8.86	9.09	9.66	9.90	10.19	10.28	9.99	9.30
	8	7.62	7.07	6.72	6.74	6.86	7.32	7.78	8.39	8.76	8.95	9.24	9 00	8.52
	9	7.09	6.44	6.07	6.12	6.30	6.68	7.61	7.88	8.10	8.56	8.67	8.52	7.98
	10	6.85	6.08	5.76	5.77	6.12	6.48	6.68	7.27	7.70	7.86	8.19	7.95	7.80
	11	7.02	6.43	6.12	6.18	6.38	6.72	7.39	7.85	8.30	8.48	8.56	8.35	7.78
	12	7.23	6.67	6.40	6.44	6.73	7.23	7.76	8.43	8.84	8.82	8.84	8.68	7.71
	13	7.71	7.14	6.57	6.62	7.06	7.67	8.70	9.44	9.83	10.07	10.15	9.93	8.36
	14	7.68	7.02	7.02	7.17	7.32	7.91	8.63	9.34	9.66	10.07	9.90	9.71	8.87
	15	9.12	8.89	8.56	8.80	8.92	9.48	9.97	10.52	10.89	11.22	11.09	10.38	9.82
	16	9.53	9.01	8.69	8.76	9.06	9.33	10.18	10.82	11.35	11.59	11.49	11.41	10.25
	17	9.78	9.46	8.88	8.64	9.14	9.65	9.97	10.68	10.95	11.25	11.40	11.28	10.38
	18	9.32	8.42	8.21	8.12	8.72	9.23	9.93	10.49	11.01	11.37	11.54	11.12	10.04
	19	8.78	8.42	8.13	8.16	8.42	8.99	9.92	10.56	11.06	11.56	11.84	11.36	10.07
	20	9.70	9.11	8.76	8.70	9.07	9.73	10.11	10.60	11.16	11.48	11.62	11.22	10.54
	21	9.98	9.47	8.91	9.09	9.36	9.86	10.51	11.00	11.52	11.92	12.10	11.74	10.86
	22	10.97	10.40	10.06	9.82	9.95	10.51	11.05	11.38	11.87	12.20	12.23	12.09	11.32
	23	10.59	9.96	9.56	9.52	9.47	9.98	10.78	11.47	11.79	11.86	11.88	11.90	11.20
	24	9.72	9.45	9.05	9.06	9.16	9.53	10.28	10.85	11.01	11.23	11.15	10.94	10.71
	25	9.21	8.57	8.44	8.04	8.37	9.25	10.02	10.88	11.35	11.55	11.15	10.84	10.20
	26	9.82	9.20	8.78	8.66	9.21	9.53	10.46	10.82	11.25	11.35	11.15	10.88	10.55
	27	9.31	8.52	8.07	7.92	8.58	10.13	9.75	10.39	10.73	10.99	10.77	10.53	10.13
	28	8.61	7.83	7.59	7.41	7.57	7.98	8.55	9.04	9.39	9.74	9.70	9.13	9.06
	29	7.10	6.56	6.40	6.23	6.50	7.16	7.97	8.70	9.09	9.33	9.03	8.54	8.21
	30	7.72	7.23	7.12	7.03	7.47	8.04	8.68	9.35	9.73	9.96	9.77	9.47	8.83
Hourly Means.		8.54	7.96	7.63	7.60	7.90	8.47	9.08	9.69	10.08	10.36	10.38	10.08	9.35

STANDARD THERMOMETER.

SEPTEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	76.5	75.9	76.0	75.7	74.6	74.0	75.0	79.0	82.0	85.1	86.3	87.2	—
2	76.8	75.8	75.0	74.6	75.0	74.4	74.7	78.3	82.0	84.5	86.1	87.7	—
3	76.6	75.7	75.7	75.2	75.0	75.0	75.9	76.8	79.3	81.0	83.0	82.4	—
4	73.9	73.6	73.0	72.7	72.2	72.4	73.6	77.4	81.4	84.3	86.8	87.4	—
5	76.0	75.8	75.8	75.2	74.7	74.5	76.1	80.3	83.0	86.2	87.1	89.0	—
6	75.5	75.0	74.8	74.1	74.0	74.1	75.8	78.8	82.2	84.6	87.4	88.0	—
7	75.8	75.0	74.2	73.6	73.0	73.1	73.2	75.8	80.1	82.1	83.7	85.1	—
8	75.4	74.6	73.7	73.3	72.7	72.3	72.4	75.3	79.2	82.1	83.6	85.5	—
9	73.4	72.7	72.1	71.3	70.8	70.2	71.2	73.4	78.6	82.3	83.8	84.7	—
10	71.2	70.3	69.6	69.2	68.8	68.1	69.6	72.7	79.0	82.6	85.5	87.7	—
11	75.0	74.1	73.1	72.4	71.5	71.0	71.6	75.3	78.1	82.2	85.5	87.2	—
12	75.7	75.1	73.8	73.6	73.0	73.0	73.7	76.5	80.1	83.0	85.1	86.1	—
13	78.0	77.4	76.5	76.0	75.5	75.3	76.1	78.0	80.0	83.4	85.0	85.9	—
14	78.3	77.8	77.2	76.2	75.8	76.2	75.8	76.2	78.3	80.2	84.1	86.4	—
15	78.0	77.4	76.8	76.6	76.6	76.2	76.8	79.0	82.8	85.7	88.0	87.4	—
16	76.2	75.4	74.6	74.2	73.0	72.7	74.1	78.0	81.9	84.9	87.0	87.0	—
17	75.9	75.3	75.0	74.2	74.0	73.8	74.5	78.1	81.5	84.9	86.0	86.4	—
18	76.3	75.6	75.4	75.3	75.0	74.8	76.3	79.9	83.0	86.7	89.0	87.0	—
19	77.2	76.5	76.1	75.9	75.3	75.3	76.0	79.5	83.3	85.6	88.2	86.6	—
20	78.2	78.2	77.7	77.0	76.0	75.7	76.6	79.4	83.0	85.6	87.2	87.8	—
21	77.1	76.2	75.8	75.4	74.5	74.0	75.0	78.2	82.2	85.0	86.0	87.1	—
22	79.0	78.2	77.2	76.3	75.7	75.3	76.5	79.9	82.1	84.5	85.5	86.9	—
23	78.4	78.3	77.8	77.2	76.4	75.5	76.7	80.6	83.4	87.0	88.4	88.0	—
24	75.3	74.0	73.8	74.0	74.5	74.2	74.7	75.6	78.4	80.9	82.6	83.9	—
25	76.0	76.0	75.8	75.1	75.1	74.7	75.2	77.7	81.1	82.5	83.1	84.8	—
26	76.2	76.1	76.1	75.2	74.1	73.5	75.0	78.6	81.9	83.6	86.3	87.1	—
27	74.9	74.9	74.5	74.1	73.9	74.3	75.3	78.2	81.1	84.0	86.3	88.7	—
28	75.9	75.7	75.0	74.2	73.5	73.0	75.3	79.0	82.6	85.3	87.3	90.0	—
29	77.5	76.8	75.7	75.3	74.8	74.0	75.6	79.2	82.9	85.7	87.2	88.8	—
30	77.4	76.6	75.8	74.9	74.1	73.9	75.1	78.4	82.0	85.8	85.8	85.4	—
Hourly Means.	76.25	75.67	75.12	74.60	74.10	73.82	74.78	77.77	81.22	84.04	85.90	86.77	—

SEPTEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	85.2	86.7	85.1	83.9	83.6	82.1	81.1	80.6	80.2	79.5	78.6	77.0	80.45
2	86.4	86.4	85.7	84.4	83.3	82.1	81.8	81.8	81.4	80.2	79.2	77.0	80.61
3	79.0	80.5	78.0	77.6	77.6	76.6	76.0	75.2	74.9	74.9	75.0	74.6	77.15
4	89.2	89.2	89.1	87.4	86.0	83.0	81.6	80.2	79.0	78.3	77.5	77.0	80.26
5	90.0	89.5	89.5	88.5	86.5	83.3	81.2	79.2	77.6	77.3	77.1	76.2	81.23
6	89.8	87.1	86.9	85.3	84.1	82.8	81.7	80.1	79.0	77.8	77.2	76.5	80.53
7	85.5	86.1	85.1	83.5	83.0	78.6	77.9	77.0	76.4	76.0	76.0	76.2	78.58
8	84.1	84.7	84.4	83.3	82.1	81.1	79.8	78.3	77.8	77.6	76.2	75.0	78.52
9	85.2	85.6	84.8	83.1	82.2	80.4	78.6	76.7	75.5	74.2	73.1	72.1	77.33
10	86.7	87.6	87.0	84.9	83.3	82.0	80.8	79.9	79.1	77.2	76.9	75.5	78.13
11	88.9	86.7	85.9	85.0	84.2	82.4	81.2	80.0	79.0	78.6	77.5	76.8	79.30
12	85.7	84.7	84.0	83.6	83.0	82.1	81.6	81.1	80.8	80.1	79.4	78.5	79.72
13	86.5	85.0	86.7	86.5	85.5	83.5	82.0	81.2	80.4	80.0	79.4	78.9	80.95
14	88.4	89.0	87.7	86.2	85.4	83.6	82.5	81.2	80.5	79.7	79.5	78.6	81.03
15	88.6	87.7	86.4	86.1	84.9	83.3	81.2	80.3	79.0	78.1	77.7	77.2	81.33
16	87.2	87.4	84.5	83.8	83.2	82.0	81.3	80.0	78.7	78.3	77.7	76.8	80.00
17	86.7	85.3	85.3	84.0	83.2	82.4	81.3	80.6	79.4	78.6	77.7	76.9	80.04
18	88.1	87.2	86.2	84.1	83.0	82.1	82.0	81.8	81.0	80.3	79.0	77.9	81.13
19	87.0	86.6	85.2	84.7	83.1	82.4	82.2	81.9	80.5	79.7	79.1	78.5	81.10
20	87.7	87.5	85.9	84.8	83.9	83.2	82.6	82.2	81.4	80.4	79.0	77.5	81.60
21	89.1	87.0	86.2	85.4	84.2	83.0	82.1	82.1	81.1	80.5	79.5	79.3	81.08
22	87.3	86.4	85.6	84.4	83.3	82.5	81.8	81.0	80.5	79.5	79.1	78.6	81.13
23	87.5	86.5	85.9	85.0	83.7	82.9	82.2	81.5	81.1	80.8	80.5	78.0	81.80
24	84.2	81.8	83.3	82.0	81.8	80.4	79.6	79.1	78.5	77.5	77.0	76.1	78.47
25	84.1	85.0	85.5	84.8	83.8	82.6	81.4	80.4	78.9	77.8	77.0	77.0	79.81
26	86.8	85.8	84.8	83.8	83.4	82.3	81.2	76.8	75.5	75.3	75.1	74.5	79.54
27	87.4	86.8	86.5	85.6	83.7	78.0	77.0	76.8	76.1	76.1	76.0	76.0	79.43
28	87.5	87.0	86.0	85.1	84.3	83.0	82.0	80.5	79.8	79.8	78.9	77.9	80.78
29	88.2	88.2	86.3	85.0	84.1	83.3	82.1	81.9	81.1	79.5	79.1	78.6	81.29
30	87.4	87.1	85.9	84.9	83.9	83.4	82.8	81.9	81.3	80.5	79.7	77.1	80.88
Hourly Means.	86.85	86.40	85.65	84.56	83.58	82.02	81.01	80.04	79.18	78.47	77.82	76.93	80.11

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	866	856	856	864	871	870	854	748	639	588	588	515	—
	2	874	872	879	888	871	878	863	777	627	592	588	571	—
	3	915	948	931	947	947	947	923	891	823	775	710	758	—
	4	947	947	946	946	955	946	911	827	741	642	560	562	—
	5	898	880	864	863	888	887	856	715	670	593	573	537	—
	6	872	879	879	895	903	878	848	763	634	586	523	464	—
	7	880	879	896	903	911	911	903	841	745	682	654	627	—
	8	957	947	947	946	946	946	919	855	778	713	671	625	—
	9	827	834	832	830	820	854	847	707	551	406	408	398	—
	10	830	845	861	870	869	887	844	775	607	508	477	408	—
	11	888	896	903	902	901	882	866	760	715	589	471	464	—
	12	856	855	887	869	876	843	819	748	660	606	554	558	—
	13	876	875	874	881	922	939	915	925	803	658	618	616	—
	14	853	860	883	906	905	890	923	906	822	774	648	577	—
	15	836	835	842	841	865	890	866	847	703	621	530	568	—
	16	906	914	904	904	903	910	904	821	720	632	532	628	—
	17	923	930	930	938	930	929	913	831	707	620	563	644	—
	18	873	898	897	905	913	922	899	810	697	607	540	627	—
	19	891	899	906	915	930	930	915	863	712	641	567	658	—
	20	853	861	876	875	881	905	906	824	711	647	603	630	—
	21	835	833	841	840	830	845	798	761	695	583	624	562	—
	22	807	829	851	882	898	905	874	774	675	605	578	536	—
	23	861	868	876	891	899	923	882	753	631	534	487	554	—
	24	930	929	938	947	956	956	939	914	846	747	696	687	—
	25	923	923	931	947	947	939	914	844	762	702	704	696	—
	26	850	841	841	847	878	895	879	830	750	679	553	622	—
	27	904	922	939	930	929	930	923	808	713	622	577	552	—
	28	889	880	846	853	877	876	791	733	635	529	471	426	—
	29	819	817	832	831	830	837	792	705	598	520	481	468	—
	30	796	825	815	805	795	770	742	715	658	549	542	565	—
														—
Hourly Means.		875	879	883	889	895	897	874	802	701	618	570	570	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	633	559	625	679	664	680	739	767	773	801	830	866	739
	2	613	589	636	682	725	764	777	777	791	811	839	899	758
	3	894	835	917	908	892	906	915	930	930	930	939	939	894
	4	502	514	497	515	538	637	748	796	823	837	860	867	753
	5	513	516	424	407	499	631	691	756	812	827	834	873	709
	6	436	532	548	595	661	675	727	787	815	835	851	865	727
	7	641	624	639	692	711	901	907	932	931	940	948	948	819
	8	654	650	548	548	632	663	742	806	828	852	817	822	784
	9	516	464	426	504	530	592	665	732	751	788	810	807	662
	10	501	477	549	587	637	665	716	758	778	843	842	872	709
	11	468	530	520	563	577	681	725	765	800	814	843	857	724
	12	584	605	640	665	697	729	756	769	782	818	832	846	744
	13	529	639	530	553	609	685	736	776	811	817	832	854	761
	14	549	546	564	618	615	614	564	643	690	729	772	815	736
	15	574	576	600	587	612	657	748	789	831	853	867	867	742
	16	586	611	688	720	725	764	791	833	869	884	892	906	789
	17	632	646	666	654	671	701	740	760	801	830	852	866	778
	18	590	616	643	715	760	793	807	822	843	872	878	876	783
	19	616	639	634	690	733	766	779	793	782	780	801	838	778
	20	630	630	680	723	748	767	794	808	828	849	878	884	783
	21	542	562	557	577	629	663	721	743	761	760	794	771	714
	22	586	625	640	701	739	758	770	797	804	839	838	861	757
	23	593	626	629	690	713	710	772	791	805	819	834	836	749
	24	701	806	745	784	791	811	833	854	838	875	891	899	846
	25	700	665	566	618	633	722	770	789	831	859	874	866	797
	26	665	661	696	693	725	758	747	882	888	897	904	913	787
	27	635	608	588	660	713	759	826	842	864	864	881	898	787
	28	539	567	580	620	611	663	741	766	794	802	830	836	715
	29	476	480	534	564	603	618	680	699	733	779	771	769	677
	30	528	508	513	574	620	631	648	691	717	752	764	775	679
Hourly Means.		588	597	601	636	667	712	753	788	810	832	847	860	756

DIRECTION OF THE WIND.

SEPTEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
1	NE	NE	NE	NE	NE	C	NE	SSW	SW	E	NE	ENE
2	NE	NE	NE	NE	NE	C	NE	ENE	NE	E	NE	NE
3	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	SE	ESE	ESE	SE
4	C	S	C	C	C	S	S	SE	ESE	ESE	E	E
5	E	E	E	E	E	E	E	ESE	ESE	ESE	E	E
6	NE	NE	NE	NE	NE	NE	ENE	ESE	ESE	ESE	E	E
7	C	C	C	ENE	ENE	C	ENE	ENE	ENE	ESE	ENE	NE
8	WSW	WSW	C	WSW	WSW	WSW	WSW	WSW	WSW	SSE	ESE	NE
9	NNE	NNE	NNE	NNE	NNE	NE	NE	E	ESE	ESE	ESE	E
10	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	S	SE	S	S
11	C	NE	NE	NE	NE	NE	NE	ESE	S	S	SSE	ENE
12	NE	NE	NE	NE	NE	NE	ENE	SSW	SSW	SSW	SE	ENE
13	NE	NE	ENE	ENE	ENE	ENE	ENE	ESE	ESE	E	E	E
14	ENE	C	ENE	ENE	ENE	ENE	ENE	ENE	ESE	ESE	ESE	E
15	E	E	E	E	E	E	E	E	ESE	ESE	E	E
16	C	E	E	E	E	E	E	E	E	E	E	NNE
17	NE	NE	NE	NE	NE	NE	NE	E	E	E	E	NNE
18	C	NE	NE	NE	NE	NE	NE	ENE	E	ESE	E	NNE
19	NE	NE	C	C	C	NE	NE	NE	ESE	ENE	E	NNE
20	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	SW	SW	W	NW
21	NE	NE	NE	NE	C	NE	NE	NE	NE	NE	NW	N
22	NNE	NNE	NNE	NNE	NNE	C	NNE	ESE	E	ENE	NE	NE
23	C	NE	NE	C	C	C	NE	SE	ESE	ESE	NE	N
24	N	N	N	N	N	N	N	C	NNE	NNE	ENE	N
25	ESE	ESE	ESE	C	C	ESE	ESE	ESE	SSE	SE	ENE	NNE
26	SSE	SSE	SSE	SSE	C	C	SSE	SSE	SE	SE	E	N
27	S	S	S	C	S	S	S	SE	E	SE	E	E
28	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SW	ENE	SE
29	N	N	N	NW	NW	NW	NW	NW	SSW	S	SSW	N
30	ENE	ENE	ENE	ENE	ENE	ENE	SSE	SSE	ESE	S	NE	NNE

SEPTEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
1	NE	NE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2	NNE	NE	NNE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE
3	NNE	E	S	S	S	S	S	S	S	S	S	S
4	E	E	E	E	E	E	E	E	E	E	E	E
5	ENE	ENE	E	ENE	ENE	NE	NE	NE	NE	NE	C	NE
6	E	NE	NE	ENE	NE	ENE	ENE	ENE	C	ENE	ENE	C
7	NNE	NNE	NNE	NNE	N	W	W	WSW	WSW	WSW	WSW	WSW
8	NNE	N	NE	NE	NNE	NNE	NNE	C	C	NNE	NNE	NNE
9	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE
10	NE	N	NNE	NE	NE	NE	NE	NE	NE	NE	NE	C
11	NE	NE	NE	NE	NE	NE	NE	NE	C	NE	NE	NE
12	NE	NNE	NE	NE	NE	NE	NE	NE	C	C	C	C
13	E	N	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
14	E	SE	E	E	ENE	E	E	E	E	E	E	E
15	ENE	NE	ENE	E	E	E	E	E	E	C	C	C
16	NNE	NNE	NE	NE	NE	NE	NE	NE	C	NE	NE	NE
17	NE	NE	NE	NNE	NE	NE	NE	NE	C	C	NE	C
18	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
19	NNE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE
20	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE
21	NNE	NNE	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	C
22	NE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	C
23	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	N
24	NE	ENE	NNE	NNE	NNE	NNE	NNE	NE	ESE	ESE	ESE	ESE
25	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	SE	SSE	SSE
26	NNE	NE	NE	NE	NE	NE	SE	SSW	S	S	S	S
27	NNE	N	NNE	NNE	N	SW	SW	SW	SW	SW	SW	SW
28	NNE	N	NNE	NE	NNE	N	N	N	N	N	N	N
29	NE	NNE	NNE	NNE	NNE	NNE	NNE	C	NNE	NE	ENE	ENE
30	NNE	NE	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	0.8	3.2	2.4	1.6	0.8	0.0	2.4	8.0	4.8	7.2	9.7	12.1	—
	2	0.8	1.6	3.2	1.6	0.8	0.0	3.2	3.2	4.8	6.4	7.2	12.9	—
	3	1.6	1.6	3.2	2.4	1.6	2.4	2.4	2.4	4.8	6.4	6.4	4.8	—
	4	0.0	0.8	0.0	0.0	0.0	1.6	2.4	8.9	14.5	16.9	16.9	16.1	—
	5	1.6	3.2	3.2	1.6	0.8	1.6	8.0	13.7	20.9	20.9	17.7	19.3	—
	6	1.6	1.6	1.6	1.6	1.6	2.4	4.8	8.0	16.1	18.5	19.3	22.5	—
	7	0.0	0.0	0.0	0.8	0.8	0.0	0.8	2.4	6.4	4.8	4.8	6.4	—
	8	1.6	1.6	0.0	1.6	3.2	1.6	1.6	3.2	3.2	5.6	6.4	8.0	—
	9	4.8	6.4	6.4	6.4	4.0	3.2	4.8	4.8	5.6	9.7	7.2	8.0	—
	10	1.6	0.8	1.6	0.8	1.6	2.4	3.2	4.8	9.7	12.9	11.3	9.7	—
	11	0.0	2.4	4.8	5.6	1.6	1.6	4.0	4.8	4.0	6.4	6.4	8.0	—
	12	1.6	2.4	3.2	3.2	2.4	5.6	4.8	9.7	8.0	6.4	7.2	11.3	—
	13	1.6	1.6	4.8	3.2	1.6	1.6	3.2	4.8	4.8	8.0	13.7	10.5	—
	14	0.8	0.0	0.8	3.2	3.2	3.2	1.6	3.2	11.3	11.3	17.7	16.9	—
	15	0.8	1.6	1.6	1.6	1.6	2.4	4.8	5.6	12.1	15.3	17.7	16.1	—
	16	0.0	1.6	1.6	2.4	1.6	0.8	1.6	6.4	13.7	14.5	13.7	14.5	—
	17	3.2	1.6	1.6	3.2	1.6	1.6	2.4	8.0	9.7	11.3	10.5	14.5	—
	18	0.0	0.8	1.6	1.6	3.2	2.4	1.6	4.8	9.7	8.9	12.9	19.3	—
	19	1.6	1.6	0.0	0.0	0.0	0.8	1.6	4.8	8.0	9.7	11.3	19.3	—
	20	0.8	0.8	1.6	0.8	0.8	1.6	3.2	4.8	5.6	3.2	4.8	8.0	—
	21	5.6	4.8	4.0	0.8	0.0	2.4	3.2	1.6	3.2	5.6	8.0	11.3	—
	22	0.8	0.8	1.6	0.8	1.6	0.0	1.6	7.2	6.4	7.2	10.5	15.3	—
	23	0.0	0.8	0.8	0.0	0.0	0.0	3.2	4.8	6.4	6.4	8.0	13.7	—
	24	4.8	2.4	3.2	0.8	1.6	3.2	1.6	0.0	4.8	4.8	6.4	8.0	—
	25	0.8	0.8	1.6	0.0	0.0	0.8	2.4	2.4	4.8	3.2	4.8	6.4	—
	26	4.0	4.8	1.6	0.8	0.0	0.0	2.4	3.2	6.4	8.0	7.2	11.3	—
	27	1.6	1.6	0.8	0.0	0.8	1.6	3.2	4.8	6.4	8.0	8.0	9.7	—
	28	2.4	4.8	1.6	1.6	0.8	4.0	4.8	4.0	5.6	6.4	6.4	11.3	—
	29	2.4	3.2	6.4	5.6	4.0	2.4	2.4	4.0	7.2	8.0	8.0	8.0	—
	30	2.4	1.6	2.4	1.6	4.8	5.6	4.0	3.2	6.4	6.4	7.2	11.3	—
Hourly Means.		1.65	2.03	2.24	1.84	1.55	1.89	3.04	5.05	7.84	8.94	9.91	12.15	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	15.3	12.9	12.1	15.3	12.1	9.7	1.6	1.6	1.6	0.8	1.6	1.6	5.80
	2	16.1	16.1	17.7	16.1	11.3	4.0	3.2	3.2	1.6	2.4	4.8	3.2	6.06
	3	4.8	6.4	5.6	4.8	3.2	3.2	2.4	1.6	1.6	0.8	0.8	0.8	3.17
	4	20.9	27.4	25.7	23.3	21.7	12.1	8.0	4.8	2.4	0.8	0.8	1.6	9.48
	5	20.9	20.9	24.1	24.9	18.5	9.7	4.8	0.8	1.6	0.8	0.0	0.8	10.01
	6	24.9	24.1	20.1	20.1	14.5	9.7	4.0	0.8	0.0	0.8	0.8	0.0	9.14
	7	12.9	13.7	14.5	12.9	8.0	1.6	3.2	3.2	1.6	0.8	0.8	1.6	4.25
	8	11.3	14.5	14.5	13.7	9.7	1.6	0.8	0.0	0.0	1.6	3.2	4.8	4.72
	9	13.7	16.1	15.3	12.9	9.7	4.8	0.8	0.8	1.6	2.4	2.4	1.6	6.39
	10	11.3	12.9	12.9	17.7	13.7	8.9	4.8	1.6	0.8	0.8	0.8	0.0	6.11
	11	14.5	16.1	13.7	13.7	12.1	7.2	1.6	0.8	0.0	1.6	0.8	1.6	5.55
	12	17.7	16.1	16.1	14.5	11.3	6.4	3.2	3.2	0.0	0.0	0.0	0.0	6.43
	13	12.1	8.0	14.5	18.5	11.3	11.3	8.0	4.8	1.6	1.6	1.6	0.8	6.40
	14	20.1	17.7	16.9	16.1	14.5	14.5	10.5	4.8	2.4	4.8	3.2	0.8	8.31
	15	23.3	27.4	25.7	21.7	16.1	11.3	6.4	3.2	3.2	0.0	0.0	0.0	9.15
	16	15.3	16.9	21.7	19.3	16.1	10.5	3.2	0.8	0.0	1.6	0.8	0.8	7.48
	17	17.7	17.7	17.7	16.1	12.9	5.6	4.8	1.6	0.0	0.0	1.6	0.0	6.87
	18	17.7	18.5	21.7	22.5	14.5	9.7	4.8	2.4	1.6	2.4	3.2	3.2	7.88
	19	19.3	19.3	20.1	17.7	11.3	4.0	2.4	1.6	3.2	1.6	1.6	1.6	6.77
	20	12.9	14.5	16.1	14.5	12.1	7.2	1.6	1.6	1.6	3.2	3.2	4.8	5.39
	21	13.7	14.5	14.5	12.9	12.1	6.4	1.6	0.8	0.8	0.8	0.8	0.0	5.39
	22	17.7	20.9	19.3	18.5	14.5	8.0	4.8	3.2	1.6	1.6	1.6	0.0	6.90
	23	16.9	17.7	16.9	15.3	12.1	8.0	4.8	3.2	3.2	1.6	1.6	6.4	6.33
	24	8.0	7.2	8.0	8.0	3.2	1.6	1.6	3.2	6.4	3.2	3.2	1.6	4.03
	25	11.3	14.5	15.3	13.7	12.1	4.8	0.8	1.6	3.2	6.4	4.0	4.8	5.02
	26	12.9	17.7	16.1	14.5	12.9	8.9	8.0	9.7	4.8	0.8	0.8	3.2	6.67
	27	15.3	14.5	15.3	15.3	11.3	9.7	4.8	3.2	3.2	1.6	2.4	1.6	6.03
	28	14.5	12.9	15.3	12.9	8.0	3.2	0.8	0.8	0.8	0.8	2.4	5.6	5.49
	29	14.5	16.1	14.5	12.9	5.6	4.8	1.6	0.0	2.4	5.6	4.8	3.2	6.15
	30	13.7	15.3	12.9	12.9	11.3	7.2	4.8	0.8	0.8	0.8	1.6	3.2	5.93
Hourly Means.		15.37	16.28	16.49	15.77	11.92	7.19	3.79	2.32	1.79	1.73	1.84	1.97	6.44

CLOUDS.

CLEAR = 0. OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	1	7	5	6	4	5	3	4	4	7	7	7	—
	2	1	0	0	1	3	3	1	1	1	1	9	1	—
	3	10	10	9	8	9	10	10	10	10	10	10	10	—
	4	3	3	2	2	3	3	4	2	2	3	6	9	—
	5	2	2	1	2	1	2	5	3	6	8	8	4	—
	6	3	4	2	1	4	3	6	5	6	6	5	7	—
	7	1	1	0	0	3	4	1	1	1	1	6	9	—
	8	4	2	0	1	2	3	3	2	0	4	5	5	—
	9	3	3	2	2	1	4	9	9	8	8	7	6	—
	10	2	1	1	0	1	2	3	1	1	0	1	5	—
	11	4	2	1	4	2	3	2	2	2	2	3	2	—
	12	2	1	0	1	1	2	3	1	4	5	5	8	—
	13	7	8	9	10	10	10	10	10	10	10	10	10	—
	14	9	5	9	3	7	10	10	10	10	10	9	8	—
	15	10	10	10	10	9	9	10	8	9	6	9	10	—
	16	3	2	2	2	3	1	2	1	2	3	4	2	—
	17	2	3	2	1	2	2	1	1	6	5	7	5	—
	18	4	3	5	5	3	4	3	2	3	3	4	2	—
	19	7	4	8	5	3	2	3	2	4	5	6	4	—
	20	10	10	7	2	1	2	2	1	1	4	4	6	—
	21	9	7	5	5	4	2	2	1	3	2	6	2	—
	22	10	7	5	2	2	2	1	0	1	6	7	5	—
	23	9	9	4	3	3	4	2	1	0	1	4	1	—
	24	10	10	10	10	10	10	9	9	4	9	10	8	—
	25	8	9	1	2	8	6	4	1	2	7	6	8	—
	26	2	10	10	10	6	4	2	2	2	3	3	3	—
	27	10	8	6	2	10	5	6	6	4	6	6	5	—
	28	7	9	2	1	2	2	0	0	0	1	1	1	—
	29	4	3	1	1	1	1	3	2	1	1	2	3	—
	30	0	2	1	2	4	6	4	1	1	1	5	9	—
Hourly Means.		5.2	5.2	4.0	3.5	4.1	4.2	4.1	3.3	3.6	4.6	5.8	5.5	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	6	6	7	7	8	4	3	3	8	5	2	1	5.0
	2	2	7	3	5	6	10	9	10	10	10	10	10	4.8
	3	10	10	10	10	10	10	4	6	8	6	7	6	8.9
	4	9	7	4	1	1	1	4	5	4	2	5	4	3.7
	5	3	4	2	3	3	4	1	1	3	4	6	2	3.3
	6	5	4	4	3	6	4	3	2	4	3	3	2	4.0
	7	8	6	3	3	10	10	10	10	10	10	10	6	5.2
	8	10	1	3	1	1	1	2	9	9	9	8	4	3.7
	9	3	3	4	4	4	3	7	6	5	4	2	3	4.6
	10	3	2	4	3	4	6	5	10	7	4	3	2	3.0
	11	4	2	1	1	5	3	2	7	10	6	3	3	3.2
	12	3	4	9	9	9	10	9	10	10	10	8	8	5.5
	13	7	6	7	7	8	9	9	9	10	8	9	9	8.8
	14	8	7	10	10	10	10	10	10	10	10	10	10	9.0
	15	9	8	7	10	10	7	7	6	6	7	9	8	8.5
	16	3	2	4	4	3	3	4	6	8	4	3	3	3.1
	17	2	1	2	3	5	8	7	6	6	6	3	3	3.7
	18	2	1	1	1	9	10	10	9	4	2	1	1	3.8
	19	1	1	1	2	2	4	9	9	10	9	9	10	5.0
	20	4	3	3	4	6	7	6	7	9	10	7	7	5.1
	21	3	1	1	1	1	2	3	7	9	7	8	10	4.2
	22	1	1	1	1	1	2	2	3	5	6	9	9	3.7
	23	0	1	1	0	0	4	3	4	3	9	9	10	3.5
	24	10	10	10	9	4	3	6	10	10	10	9	5	8.5
	25	6	4	2	2	4	9	3	2	10	9	10	9	5.5
	26	3	3	4	3	7	6	9	7	7	4	2	8	5.0
	27	1	0	0	1	10	10	10	10	9	10	10	10	6.5
	28	5	4	4	3	3	6	3	6	9	6	4	2	3.4
	29	2	1	3	4	4	5	7	10	10	10	10	9	4.1
	30	4	5	6	6	9	9	10	10	9	9	9	9	5.5
Hourly Means.		4.6	3.8	4.0	4.0	5.4	6.0	5.9	7.0	7.7	7.0	6.6	6.1	5.05

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

SEPTEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	10.2	8.0	5.9	4.8	5.4	4.8	4.3	0.5	— 2.1	0.5	— 4.8	0.5	—
2	6.4	5.4	6.4	5.4	6.4	N	6.4	4.3	— 5.4	1.1	— 1.1	— 3.2	—
3	0.0	4.3	6.4	5.4	6.4	7.0	10.2	10.2	6.4	2.7	2.1	5.4	—
4	13.9	15.0	13.9	16.6	20.9	17.7	16.1	4.8	3.8	0.0	1.6	— 1.6	—
5	9.1	9.6	7.5	8.0	8.0	9.6	5.9	0.0	0.5	— 1.1	— 1.1	— 1.6	—
6	15.0	7.5	8.0	5.4	8.0	5.4	5.9	4.8	3.2	—	—	— 3.2	—
7	12.8	18.7	16.1	13.4	11.8	12.3	18.2	9.1	3.8	0.0	0.5	— 2.1	—
8	16.1	12.8	14.5	16.6	16.6	11.8	9.6	9.6	0.5	0.5	2.1	1.1	—
9	7.5	7.5	7.5	7.0	7.5	9.1	18.7	7.0	3.8	2.7	3.8	4.8	—
10	14.5	10.7	11.8	10.2	9.6	10.2	9.6	10.7	— 2.7	0.0	1.1	2.1	—
11	20.9	15.5	9.1	7.5	8.0	7.0	11.8	0.5	— 1.6	— 5.9	— 0.5	2.1	—
12	10.2	10.2	11.2	8.6	7.5	3.8	2.1	— 3.8	— 9.6	— 3.8	— 2.7	— 5.4	—
13	12.8	9.1	3.2	6.4	1.6	7.0	8.0	5.4	3.2	0.5	1.1	1.1	—
14	10.2	16.1	15.0	15.0	12.8	10.7	P N	11.2	9.6	— 3.8	— 2.7	2.1	—
15	15.0	11.8	10.2	9.6	—	—	— 2.7	—	—	—	—	—	—
16	12.3	23.0	17.7	16.6	12.3	—	18.7	10.7	3.8	0.5	0.5	0.5	—
17	12.8	9.1	8.0	8.0	4.3	5.4	9.1	4.3	0.5	—	—	—	—
18	10.7	9.6	8.6	5.9	5.9	3.8	4.8	—	—	—	—	— 0.5	—
19	8.6	7.0	7.0	5.4	5.4	8.0	26.8	4.3	0.0	—	—	— 2.7	—
20	7.5	7.0	5.4	7.5	8.0	5.4	5.4	0.5	— 1.6	0.5	3.2	0.5	—
21	7.0	6.4	5.9	7.5	8.6	8.0	13.9	5.4	2.7	5.4	— 2.1	— 1.1	—
22	9.6	13.4	11.8	8.0	10.2	9.1	10.7	4.3	2.7	1.6	0.0	— 1.6	—
23	9.6	9.6	10.2	9.1	5.9	14.5	12.3	1.1	0.0	2.7	1.1	— 2.1	—
24	P N	P N	P N	21.4	16.1	15.0	16.1	16.6	12.3	4.3	2.7	3.8	—
25	7.0	6.4	5.9	7.0	8.0	9.6	9.6	5.4	1.1	2.7	3.2	3.2	—
26	6.4	7.0	6.4	7.0	11.2	18.7	28.4	10.7	7.0	5.9	6.4	0.0	—
27	3.2	3.2	2.1	2.7	2.7	4.3	4.8	2.7	0.5	0.0	0.0	0.0	—
28	5.4	5.4	6.4	5.4	5.9	5.4	10.7	2.7	0.0	2.1	1.6	1.6	—
29	4.3	4.3	3.8	3.8	3.8	2.1	7.0	— 3.2	1.1	— 0.5	1.6	— 1.1	—
30	4.8	4.3	5.4	3.8	3.2	1.1	1.6	2.1	1.1	0.0	— 1.6	— 2.7	—
													—
Hourly Means.	9.8	9.6	8.7	8.6	8.3	8.4	10.5	5.1	1.6	0.7	0.6	0.0	—

SEPTEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	— 1.6	— 2.1	— 4.3	— 6.4	— 3.8	0.0	2.1	3.8	7.5	5.9	7.0	7.0	2.2
2	— 8.0	— 4.3	— 4.3	— 4.3	— 2.1	— 2.7	2.1	4.8	2.7	5.4	2.7	0.5	1.1
3	P	10.7	— 8.0	1.1	2.7	5.4	8.6	12.8	15.0	16.1	17.1	13.4	7.0
4	— 4.3	— 9.6	— 2.7	— 2.7	— 1.6	3.8	4.8	7.0	9.1	9.1	11.2	10.7	6.6
5	— 0.5	— 1.6	— 10.7	— 6.4	— 4.3	— 0.5	4.3	6.4	10.7	8.6	16.1	16.6	3.9
6	— 8.0	— 6.4	— 10.7	— 7.0	— 8.0	0.0	4.8	8.6	11.2	13.4	13.4	17.1	4.0
7	— 4.8	— 1.6	— 0.5	0.5	25.2	19.3	N	12.3	15.0	10.7	9.6	9.6	9.1
8	— 1.6	2.7	1.1	0.5	0.0	2.1	4.8	9.1	16.1	15.5	8.6	7.5	7.4
9	— 3.2	0.0	0.0	— 3.2	— 1.1	2.1	5.4	8.0	17.7	12.8	16.1	14.5	6.5
10	0.0	0.0	— 5.4	— 1.6	— 4.8	1.6	4.3	4.3	11.8	20.9	8.6	15.0	5.9
11	— 3.8	— 3.2	— 4.8	— 7.5	— 3.2	— 0.5	3.8	4.8	7.5	12.3	12.8	10.2	4.3
12	— 4.8	— 4.8	— 3.8	— 5.4	— 2.7	0.5	3.8	4.8	5.4	12.3	16.6	15.0	2.7
13	2.1	3.2	1.6	0.0	0.0	3.2	7.5	9.6	8.0	12.3	11.2	10.2	5.3
14	2.7	2.1	— 0.5	1.1	1.1	4.3	7.0	8.6	11.8	—	—	11.8	7.0
15	— 1.1	N	— 1.6	— 1.1	— 1.6	2.7	8.0	9.1	13.4	17.1	18.7	20.3	8.0
16	0.0	— 1.1	0.0	3.2	4.3	4.8	7.0	16.6	20.3	23.5	21.4	15.5	10.1
17	0.0	— 0.5	0.5	— 1.6	2.7	2.7	3.8	5.9	8.6	8.6	10.7	8.0	5.3
18	0.5	— 8.0	— 9.1	— 7.0	1.1	P	P	7.0	10.7	12.3	8.0	6.4	3.9
19	— 1.1	— 0.5	— 2.7	2.7	— 1.6	8.0	7.5	5.4	4.8	5.4	3.8	14.5	5.3
20	— 0.5	1.1	2.1	0.0	3.2	— 1.6	3.8	7.0	9.6	11.2	8.0	6.4	4.2
21	2.1	2.1	0.0	2.1	3.8	3.2	7.5	6.4	8.6	12.3	11.8	13.9	5.9
22	— 2.7	— 3.2	— 5.4	— 2.7	0.0	2.7	4.8	5.9	6.4	8.0	9.6	9.1	4.7
23	— 3.2	— 0.5	0.0	— 1.1	1.6	1.6	4.3	6.4	12.3	13.4	10.2	P N	5.2
24	3.2	2.1	4.8	4.3	5.4	4.8	8.0	P N	P N	5.4	2.7	5.9	8.2
25	4.3	1.6	0.5	2.7	3.2	4.8	9.1	17.1	9.1	6.4	7.0	6.4	5.9
26	3.8	3.2	3.2	4.8	8.0	16.1	P	22.5	10.2	5.4	9.6	8.0	9.1
27	1.1	1.6	0.0	0.0	4.8	0.0	N	3.2	5.9	5.4	5.4	5.4	2.6
28	— 0.5	0.0	— 0.5	— 0.5	1.6	2.7	4.3	13.9	10.7	10.7	9.1	4.8	4.5
29	— 7.0	— 0.5	— 2.7	— 1.1	— 2.7	— 0.5	1.6	7.0	7.5	1.1	4.3	4.3	1.6
30	1.1	— 2.1	— 0.5	0.0	0.5	0.0	4.3	6.4	5.4	11.2	11.8	6.4	2.8
Hourly Means.	— 1.2	— 0.7	— 2.1	— 1.2	1.1	3.1	5.3	8.4	10.1	10.8	10.5	10.2	5.26

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

OCTOBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	9.11	8.73	8.69	8.90	9.35	9.96	10.36	10.99	10.80	10.57	9.88	9.17	—
2	9.35	9.10	8.94	8.90	9.06	9.60	10.42	10.96	11.10	10.83	10.14	9.48	—
3	9.94	9.53	9.31	9.20	9.46	9.90	10.39	10.94	11.51	11.13	10.66	10.17	—
4	9.84	9.68	9.63	9.64	10.08	10.54	10.88	11.27	11.44	11.31	10.90	10.22	—
5	10.91	10.73	10.49	10.46	10.30	10.59	10.98	11.60	11.59	11.45	10.88	10.23	—
6	11.18	10.79	10.59	10.39	10.40	10.80	11.50	12.02	12.33	11.87	11.36	10.63	—
7	10.39	9.81	9.59	9.77	9.83	10.38	10.95	11.24	11.16	10.96	10.55	10.27	—
8	10.60	10.14	10.20	10.28	10.65	11.03	11.33	11.84	11.79	11.62	11.23	10.43	—
9	10.73	10.65	10.48	10.55	10.69	10.94	11.14	11.46	11.39	11.17	10.61	9.88	—
10	10.74	10.40	10.23	10.19	10.65	10.85	11.29	11.48	11.53	11.26	11.08	10.42	—
11	10.70	10.30	9.95	9.86	10.11	10.17	10.97	11.11	11.04	10.94	10.72	9.98	—
12	9.65	9.29	8.95	8.66	8.90	8.97	9.92	10.24	10.15	9.78	9.07	8.63	—
13	9.14	8.73	8.68	8.39	8.69	9.10	9.38	9.75	9.99	9.57	9.19	8.43	—
14	8.13	7.89	7.71	8.39	8.78	9.15	9.84	10.46	10.48	10.21	9.88	9.21	—
15	9.21	9.03	8.82	8.84	9.22	9.74	9.97	10.37	10.10	9.94	9.42	8.75	—
16	9.43	9.10	8.91	8.90	9.22	9.57	10.09	10.56	10.54	10.10	9.68	8.97	—
17	8.96	8.74	8.31	8.29	8.26	8.54	9.29	9.81	9.75	9.43	8.96	8.03	—
18	8.59	8.34	7.88	8.18	8.46	8.74	8.94	9.43	9.50	9.13	8.89	8.32	—
19	9.98	9.44	9.05	9.33	9.80	10.06	10.16	10.54	10.40	10.10	9.77	9.20	—
20	9.78	9.28	9.29	9.35	9.58	9.91	10.66	10.70	10.50	9.82	9.34	8.36	—
21	9.35	8.70	8.21	8.19	8.37	8.87	9.41	9.81	9.69	9.05	8.53	7.87	—
22	8.81	8.34	8.23	8.41	8.55	9.17	10.00	10.31	10.15	9.77	9.49	8.58	—
23	9.16	8.64	8.42	8.35	8.77	9.19	9.54	9.94	9.73	9.36	8.63	8.11	—
24	9.53	9.20	8.95	9.20	9.51	9.90	10.17	10.36	10.24	9.84	9.28	8.37	—
25	9.13	8.89	9.03	8.79	9.23	9.55	9.94	10.20	10.03	9.46	9.01	8.17	—
26	8.90	8.74	8.55	8.50	8.79	9.11	9.74	10.23	10.24	9.70	9.21	8.67	—
27	8.68	8.16	8.04	7.98	8.23	8.56	9.21	9.55	9.25	8.78	8.41	7.82	—
28	7.74	7.49	7.41	7.54	7.70	7.98	8.68	8.70	8.65	8.13	7.43	6.95	—
29	8.31	8.04	7.75	7.78	7.87	8.52	9.04	9.25	9.40	8.92	8.42	7.73	—
30	8.75	8.39	8.11	8.19	8.63	8.88	9.35	9.57	9.70	9.46	8.73	7.97	—
31	8.39	7.84	7.57	7.76	8.29	8.88	9.35	9.52	9.55	9.18	8.68	7.81	—
Hourly Means.	9.46	9.10	8.90	8.94	9.21	9.59	10.09	10.46	10.44	10.09	9.61	8.93	—

OCTOBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.23	7.77	7.40	7.62	7.87	8.46	8.92	9.70	10.07	10.37	10.28	9.88	9.30
2	8.92	8.32	8.06	8.12	8.22	8.53	9.19	10.01	10.44	10.68	10.64	10.43	9.56
3	9.71	9.18	8.60	8.33	8.47	8.71	9.17	9.38	9.55	10.09	10.29	10.33	9.75
4	9.68	8.92	8.28	8.28	8.40	9.28	9.97	10.73	10.88	11.49	11.47	11.10	10.16
5	9.59	8.41	8.14	8.24	8.43	9.67	9.92	10.64	11.62	11.64	11.40	11.29	10.38
6	9.88	9.43	8.97	8.98	9.32	9.97	10.50	10.83	11.08	11.56	11.53	11.30	10.72
7	9.40	8.78	8.37	8.56	9.38	9.93	10.57	10.99	11.26	11.63	11.84	11.49	10.30
8	10.07	9.66	8.92	8.82	8.96	9.43	10.19	10.64	10.98	11.41	11.29	11.00	10.52
9	8.96	8.57	8.40	8.27	8.67	9.18	9.86	10.31	10.92	11.31	11.41	10.96	10.27
10	9.65	9.00	8.48	8.45	8.92	9.58	10.03	10.54	10.70	11.20	11.11	10.85	10.36
11	8.93	8.67	8.11	7.81	8.21	8.92	9.74	10.27	10.41	10.59	10.59	10.34	9.94
12	7.92	7.57	7.13	7.11	7.72	8.48	8.89	9.46	9.87	10.04	10.03	9.66	9.00
13	7.88	7.06	7.02	6.97	7.31	7.83	8.40	8.78	9.06	9.33	9.22	8.89	8.62
14	8.48	7.85	7.97	7.84	8.08	8.73	9.68	9.80	10.14	9.95	9.96	9.64	9.09
15	8.32	7.86	7.55	7.45	7.77	8.09	8.80	9.41	9.67	9.89	9.78	9.41	9.06
16	8.15	7.41	6.98	7.00	7.34	7.82	8.74	9.44	9.82	10.09	10.00	9.55	9.06
17	7.11	6.55	6.20	6.14	6.66	7.27	7.77	8.34	9.18	9.46	9.05	8.67	8.28
18	7.73	7.22	6.92	6.92	7.17	7.83	8.71	9.56	9.83	10.01	9.99	9.69	8.58
19	8.57	7.50	7.27	7.28	7.60	8.23	8.84	9.60	10.23	10.36	10.28	9.94	9.31
20	7.51	6.90	6.67	6.48	6.93	7.57	8.04	8.69	9.32	9.88	9.78	9.32	8.90
21	6.97	6.56	6.23	6.32	6.68	7.27	8.01	8.94	9.53	9.74	9.74	9.49	8.40
22	8.06	7.45	6.93	6.90	7.32	7.92	8.63	9.54	9.95	10.21	9.73	9.41	8.83
23	7.71	7.13	6.87	6.73	7.34	7.58	8.48	9.08	9.80	10.13	10.18	9.97	8.70
24	7.56	6.84	6.58	6.66	7.10	7.56	8.43	8.70	9.09	9.36	9.50	9.31	8.80
25	7.31	6.66	6.47	6.41	6.89	7.61	8.02	8.77	9.21	9.31	9.27	8.83	8.59
26	8.00	7.49	7.22	7.24	7.40	7.91	8.59	8.92	9.25	9.33	9.31	9.20	8.76
27	7.03	6.52	6.26	6.27	6.73	7.11	7.48	7.86	8.28	8.56	8.42	8.10	7.97
28	6.85	6.33	6.18	6.25	6.62	7.38	8.29	8.67	8.82	9.06	8.96	8.83	7.78
29	6.81	6.07	5.96	5.80	6.10	6.44	7.41	8.36	9.01	9.36	9.14	9.00	7.94
30	7.16	6.66	6.32	6.26	6.52	7.10	7.94	8.44	8.99	9.23	8.96	8.57	8.25
31	7.45	6.83	6.58	6.51	6.83	7.54	8.49	8.97	9.27	9.56	9.64	9.18	8.32
Hourly Means.	8.25	7.65	7.32	7.29	7.64	8.22	8.89	9.46	9.88	10.16	10.09	9.79	9.14

STANDARD THERMOMETER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER. 1	77.1	76.5	75.1	74.5	74.3	73.7	75.0	79.0	83.0	86.2	88.4	88.4	—
2	74.7	74.0	74.1	73.5	73.0	72.4	73.2	76.6	81.2	85.1	87.6	86.6	—
3	76.2	75.0	74.8	74.4	73.9	73.5	75.4	79.0	83.3	86.1	89.0	88.0	—
4	78.8	78.0	76.9	76.5	76.0	75.6	77.2	80.7	84.4	86.6	89.1	88.1	—
5	78.0	77.1	76.4	76.0	75.3	74.8	76.6	80.2	84.3	87.2	88.8	87.8	—
6	76.6	76.0	75.6	74.9	74.7	75.0	76.0	79.9	83.7	85.8	87.0	88.5	—
7	77.2	77.0	76.4	76.0	75.4	74.9	76.5	80.1	83.5	85.0	86.2	86.0	—
8	75.2	74.8	74.4	74.1	73.6	73.9	75.3	78.2	81.5	83.9	83.3	85.8	—
9	74.8	74.8	74.0	73.4	73.2	73.6	75.4	79.5	82.7	85.0	86.6	86.5	—
10	76.7	76.3	76.1	75.6	75.3	74.8	76.1	80.3	83.6	85.6	86.4	85.7	—
11	75.3	74.7	73.9	73.5	73.1	72.8	74.4	78.0	82.5	85.5	87.9	86.5	—
12	76.1	75.5	75.3	75.0	74.0	73.8	75.0	79.0	82.2	85.0	87.2	88.1	—
13	76.0	76.0	75.8	75.6	75.2	75.2	76.1	77.4	80.2	83.3	85.0	86.2	—
14	77.1	76.0	75.6	75.2	74.7	74.7	75.8	77.5	79.6	83.2	83.1	78.6	—
15	74.9	74.0	73.1	72.5	71.8	71.5	73.8	77.9	81.6	83.8	86.6	88.4	—
16	75.9	75.0	74.2	73.4	73.0	72.8	74.8	78.5	82.7	85.7	88.4	87.8	—
17	75.2	74.6	74.1	73.5	73.1	72.9	74.7	78.1	81.2	84.2	88.0	90.1	—
18	78.0	76.7	75.5	75.1	74.4	74.6	77.0	80.1	82.9	85.5	88.2	87.6	—
19	74.2	72.6	72.6	73.0	73.2	73.2	73.2	74.7	77.6	82.0	85.3	86.5	—
20	76.4	76.2	75.7	75.0	74.9	74.7	76.3	79.4	81.6	85.2	88.0	90.2	—
21	74.8	74.5	73.7	72.8	72.2	72.2	74.0	78.5	83.7	86.8	89.0	91.0	—
22	75.5	75.0	74.2	73.6	72.7	72.5	73.8	77.8	82.6	86.0	88.5	90.2	—
23	74.2	73.5	73.0	72.2	72.0	71.8	74.7	80.0	84.2	86.9	88.6	89.9	—
24	76.0	75.0	74.8	74.0	73.5	73.5	74.9	78.4	82.7	85.7	87.7	88.8	—
25	77.5	76.9	76.0	75.8	75.4	75.4	77.0	78.7	82.0	85.4	86.3	86.3	—
26	76.1	75.2	74.5	74.3	73.7	73.1	75.0	78.6	82.1	85.0	87.0	87.3	—
27	78.5	78.0	77.4	76.8	76.0	75.0	76.2	79.1	82.1	84.5	86.5	87.3	—
28	78.4	77.4	76.6	76.0	75.6	75.3	76.8	79.9	83.3	86.7	88.7	89.6	—
29	78.2	77.6	76.6	76.2	75.8	75.5	77.5	80.4	83.6	86.5	87.3	88.0	—
30	77.2	76.9	76.7	76.0	75.1	75.0	77.0	79.8	82.6	84.6	86.4	87.0	—
31	78.0	77.0	76.1	75.5	74.7	74.1	76.0	80.0	83.5	86.5	89.0	89.4	—
Hourly Means.	76.41	75.74	75.14	74.64	74.15	73.93	75.51	78.88	82.44	85.31	87.26	87.62	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER. 1	90.0	88.6	88.0	87.3	86.4	84.0	82.0	80.0	78.7	77.8	77.0	76.1	81.13
2	88.0	87.1	87.1	86.4	85.7	83.8	82.2	81.2	79.3	78.1	77.2	77.0	80.21
3	90.2	91.6	90.0	88.6	86.2	85.0	83.9	82.7	81.8	80.4	79.7	79.1	81.99
4	88.1	87.2	87.0	86.8	85.4	83.9	83.0	82.2	81.2	80.5	79.6	79.0	82.16
5	86.6	87.6	87.7	86.0	84.8	83.6	83.0	82.5	80.4	79.0	78.0	77.8	81.65
6	88.0	86.8	85.0	84.3	83.8	82.9	79.3	78.5	78.1	78.0	77.4	77.2	80.54
7	87.9	87.6	86.7	84.5	83.5	78.5	75.0	75.0	75.0	75.0	74.9	75.2	79.71
8	85.2	84.6	84.0	84.9	83.9	82.0	80.5	78.1	77.0	76.9	76.2	75.5	79 28
9	86.7	87.7	86.5	86.1	84.2	82.4	81.6	80.0	78.7	78.2	77.7	77.5	80.28
10	86.3	86.3	86.7	85.1	84.4	83.1	81.3	80.2	79.0	78.0	77.0	75.9	80.66
11	86.4	81.3	80.2	80.8	82.4	81.2	80.5	79.5	78.4	77.7	76.8	76.5	79.16
12	87.7	88.1	87.0	84.6	84.2	83.5	82.2	79.5	78.3	77.6	77.2	76.5	80.53
13	86.7	86.3	85.2	84.3	83.5	82.6	82.2	81.2	80.8	79.9	79.3	78.0	80.50
14	74.0	75.5	78.1	80.2	79.7	79.0	77.9	77.1	76.1	75.8	75.6	75.1	77.30
15	86.8	86.3	86.5	85.8	84.6	83.3	81.2	80.1	79.0	77.7	77.7	76.5	79.81
16	87.0	86.7	89.3	87.8	85.5	83.6	81.5	79.9	78.2	77.4	76.2	75.8	80.46
17	89.1	88.2	87.0	86.0	85.2	84.1	83.1	81.3	80.5	80.0	79.1	78.9	80.93
18	87.7	87.6	86.8	85.1	84.1	83.0	82.7	82.0	81.2	80.0	78.9	78.0	81.36
19	85.3	89.0	88.2	86.3	84.4	82.1	80.2	79.0	78.0	77.1	77.0	76.6	79.22
20	90.8	91.4	90.9	89.0	86.4	83.5	81.8	80.2	79.4	77.8	76.4	75.6	81.53
21	92.0	88.4	87.9	86.2	85.1	83.1	81.3	79.6	78.5	77.4	76.9	76.2	80.66
22	91.4	90.0	88.3	87.7	86.5	84.0	81.6	79.0	77.4	76.3	75.3	74.9	80.62
23	91.5	92.1	89.0	88.1	86.1	84.0	82.1	79.7	78.6	77.8	77.6	76.5	81.00
24	88.1	87.4	86.1	85.0	84.8	83.0	82.3	81.5	80.8	79.7	78.7	78.1	80.85
25	87.2	88.8	89.4	88.3	86.4	84.0	82.3	81.6	80.8	79.2	77.7	77.0	81.48
26	87.5	86.5	86.2	85.2	84.4	83.4	83.4	82.3	81.6	81.2	80.5	79.5	80.98
27	87.2	86.1	85.3	84.7	84.0	83.0	81.5	81.3	81.3	80.6	80.0	79.0	81.31
28	88.0	87.6	86.3	85.0	84.2	83.6	82.8	82.0	80.9	80.6	80.0	79.0	81.85
29	88.5	88.1	87.1	86.4	86.0	84.1	83.7	83.1	81.5	80.1	79.0	77.6	82.02
30	86.4	86.8	87.1	86.2	84.8	83.8	83.0	82.1	81.4	81.0	80.0	79.0	81.50
31	88.0	88.3	87.1	86.7	85.2	84.0	83.6	82.2	81.0	80.1	78.9	78.1	81.79
Hourly Means.	87.56	87.28	86.70	85.79	84.70	83.07	81.70	80.47	79.45	78.61	77.85	77.18	80.72

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER. 1	787	794	791	813	796	819	814	683	555	528	422	477	—
2	854	853	869	869	885	884	860	778	644	583	546	582	—
3	899	913	913	913	921	894	847	784	657	576	508	607	—
4	869	892	906	906	915	922	875	761	651	615	559	644	—
5	901	916	923	915	930	922	890	796	657	563	518	613	—
6	833	832	840	854	862	855	841	744	639	604	602	603	—
7	867	875	890	906	905	922	882	797	706	646	613	643	—
8	956	947	947	956	956	938	914	868	791	741	747	699	—
9	897	888	912	929	929	911	856	735	731	633	583	613	—
10	891	899	906	914	930	922	915	797	686	617	596	662	—
11	898	897	912	911	911	920	897	821	670	616	554	670	—
12	906	922	922	922	938	938	897	786	675	626	563	621	—
13	889	898	905	898	905	905	890	867	803	663	670	630	—
14	883	898	898	905	913	913	889	828	787	677	672	901	—
15	863	895	911	919	918	918	837	709	633	603	594	511	—
16	898	897	904	911	902	910	846	762	610	537	485	572	—
17	863	879	895	903	886	894	863	768	671	599	486	520	—
18	884	882	905	904	921	930	866	818	732	615	543	648	—
19	938	955	964	946	955	955	973	947	892	744	640	583	—
20	890	882	905	914	922	913	899	809	757	596	509	393	—
21	879	896	887	910	910	910	895	762	621	525	437	408	—
22	864	879	904	911	910	893	861	768	675	563	513	477	—
23	845	852	876	884	884	892	830	751	673	590	561	539	—
24	856	888	888	895	920	920	871	807	670	610	559	587	—
25	859	866	881	881	889	889	851	808	750	634	638	650	—
26	849	863	854	853	869	886	823	747	673	620	562	569	—
27	877	884	883	859	906	922	882	794	738	644	589	581	—
28	853	891	890	889	880	888	850	824	732	606	566	545	—
29	884	884	882	881	889	889	844	797	714	590	617	608	—
30	924	924	932	948	939	939	907	825	718	665	664	641	—
31	908	907	915	923	913	904	849	781	653	572	530	578	—
Hourly Means.	879	889	897	901	907	907	871	791	696	613	569	593	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER. 1	442	466	491	453	459	563	637	720	753	774	795	816	652
2	525	585	603	619	628	699	743	761	823	860	883	883	742
3	472	432	485	545	606	690	720	765	784	825	840	862	727
4	650	659	665	645	692	776	809	808	851	865	871	863	778
5	632	558	576	668	751	754	781	801	788	740	789	796	757
6	595	639	690	728	741	710	770	791	805	820	843	859	754
7	542	630	626	708	747	791	939	947	939	939	939	947	806
8	691	723	700	690	700	742	730	806	818	818	856	889	818
9	632	587	632	637	688	723	763	810	822	853	860	867	770
10	670	650	639	659	695	739	776	817	862	917	891	906	790
11	715	797	810	872	772	827	872	847	861	867	882	890	820
12	625	566	597	675	687	705	757	779	829	843	858	873	771
13	597	595	634	682	713	738	772	805	826	848	863	884	787
14	836	914	901	826	855	785	813	843	882	864	840	847	849
15	584	588	535	573	643	691	790	825	854	867	852	882	750
16	586	615	455	478	571	626	726	780	805	804	832	848	723
17	509	549	562	611	646	687	718	798	818	840	862	862	737
18	600	576	608	665	694	739	759	800	836	894	893	900	776
19	667	446	509	558	623	729	803	854	876	900	891	899	802
20	361	370	361	405	459	567	664	734	770	827	856	864	693
21	375	596	576	617	582	650	732	785	806	851	850	864	722
22	436	535	538	535	510	582	656	754	741	776	791	813	704
23	367	376	570	513	551	628	707	779	798	843	827	849	708
24	626	623	662	678	697	753	786	814	843	848	846	852	771
25	629	457	413	406	493	601	686	726	760	785	812	827	716
26	576	577	624	639	688	732	747	786	806	820	834	863	744
27	616	643	666	650	640	710	776	769	769	804	824	846	761
28	607	606	600	665	687	719	759	799	827	834	848	870	760
29	616	632	654	663	674	735	769	774	791	848	885	917	768
30	656	590	579	630	676	727	780	807	836	843	879	901	789
31	637	590	609	626	677	727	761	785	842	855	877	876	762
Hourly Means.	583	586	599	623	653	705	758	796	820	841	854	868	758

DIRECTION OF THE WIND.

OCTOBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	ENE	ENE	ENE	ENE	ENE	ENE	ENE	SE	S	SE	SE	NNE
2	E	E	E	E	E	E	E	SE	SE	ESE	E	NE
3	C	ENE	C	C	ENE	ENE	ENE	ENE	E	E	E	NE
4	C	C	ENE	ENE	C	C	ENE	ENE	ESE	E	ENE	NNE
5	C	NNE	NNE	C	C	NNE	NNE	ENE	ESE	ESE	E	NE
6	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	W	NW	NNE
7	S	S	S	C	C	S	S	S	E	E	NNE	NNE
8	SSW	SSW	SSW	SSW	C	SSW	SSW	SSW	SW	WNW	NW	N
9	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	ESE	E	ENE	NE
10	ENE	ENE	ENE	ENE	C	C	ENE	E	ESE	ESE	E	N
11	ENE	C	ENE	ENE	C	C	ENE	E	ESE	SE	E	N
12	C	N	N	C	N	N	N	SSW	SSW	S	SE	NNW
13	N	N	N	N	N	N	N	SSE	SSE	S	WNW	N
14	N	N	C	C	N	N	N	N	WNW	SSW	S	SSW
15	SSW	SSW	C	SSW	C	SSW	SSW	SSW	SSW	SE	SE	SSE
16	C	NE	NE	NE	NE	NE	NE	NE	S	SE	SE	NE
17	NE	NE	C	NE	NE	NE	NE	SSE	SE	ESE	ESE	NE
18	NNE	ESE	ESE	C	ESE	ESE	ESE	NE	ESE	E	E	NNE
19	NNW	NW	SW	ENE	E	E	SSE	S	S	ESE	ESE	E
20	ENE	ENE	ENE	ENE	ENE	ENE	ENE	S	SSW	S	ESE	ENE
21	ENE	C	ENE	ENE	ENE	C	ENE	E	ESE	ESE	ENE	E
22	C	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	SE	E	E
23	ENE	ENE	ENE	ENE	ENE	ENE	ENE	SE	ESE	E	E	ENE
24	C	E	C	C	E	E	E	SSE	SE	E	SE	NNE
25	C	NE	NE	NE	NE	C	NE	NE	ENE	E	ESE	N
26	C	C	NE	C	C	NE	NE	SW	SW	W	W	N
27	C	C	C	C	C	C	C	NNE	NNE	NNW	NNW	NE
28	C	C	NE	NE	NE	NE	NE	ENE	SE	ENE	SE	E
29	ENE	C	ENE	C	C	C	ENE	ENE	E	ENE	NE	N
30	C	C	C	S	S	C	S	S	ESE	SE	N	NE
31	C	C	C	NE	C	NE	NE	SSW	SSE	S	SE	NNE

OCTOBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NE	NE	NE	E	E	E	E	E	C	C	C	C
2	E	NE	NE	NE	ENE	ENE	ENE	ENE	C	ENE	ENE	C
3	ENE	ENE	NE	ENE	ENE	ENE	ENE	C	C	C	C	C
4	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	C
5	NNE	NNE	NE	NE	NNE	NE	NE	NE	SSE	SSW	SSW	SSW
6	N	NNE	NNE	NE	NNE	NE	S	S	S	S	S	S
7	ENE	NNE	NNE	NE	N	SW	SSW	SSW	SSW	SSW	SSW	SSW
8	N	NNE	N	N	N	SW	SSW	SSW	SSW	SSW	SSW	SSW
9	NE	NE	NNE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
10	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	ENE	C	C	ENE
11	N	NNW	SW	SW	N	N	N	N	N	N	N	C
12	N	NE	NE	NE	N	N	N	N	N	N	C	C
13	N	N	NNE	NNE	N	N	N	C	C	N	N	N
14	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
15	NE	NE	NE	NE	NE	NE	C	C	C	NE	NE	NE
16	NNE	N	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE
17	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	C	NNE
18	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	W
19	NNE	E	NE	NE	ENE	ENE	ENE	ENE	C	ENE	ENE	ENE
20	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	C	ENE	ENE
21	ENE	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	C
22	E	NE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	C	C
23	ENE	E	NE	NE	NE	E	E	E	E	E	C	C
24	NNE	NE	NE	NE	NE	NE	C	C	C	NE	C	NE
25	NNE	N	NE	NE	NE	NE	NE	C	C	C	C	C
26	N	NNE	NNE	NNE	NE	NNE	C	C	C	C	C	C
27	NE	NNE	NNE	NNE	NE	NE	C	C	C	C	C	C
28	NE	NNE	NNE	NNE	ENE	NE	ENE	C	C	C	C	ENE
29	NNE	NE	NNE	NE	NE	NE	NE	NE	S	S	S	S
30	N	NNE	NNE	NE	NE	NE	C	C	C	C	C	C
31	NNE	NNE	NNE	NE	NE	NNE	C	C	C	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

OCTOBER.	Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
	1	3.2	3.2	2.4	3.2	2.4	3.2	3.2	6.4	8.9	13.7	12.9	16.1	—
	2	0.8	2.4	3.2	0.8	0.8	1.6	4.8	2.4	6.4	12.9	12.9	12.9	—
	3	0.0	0.8	0.0	0.0	0.8	2.4	4.0	1.6	7.2	12.9	14.5	16.1	—
	4	0.0	0.0	1.6	0.8	0.0	0.0	2.4	4.8	5.6	8.9	10.5	16.1	—
	5	0.0	1.6	0.8	0.0	0.0	0.8	3.2	4.0	9.7	11.3	10.5	14.5	—
	6	4.0	4.8	1.6	4.0	2.4	1.6	3.2	4.0	4.8	5.6	4.8	10.5	—
	7	0.8	0.8	0.8	0.0	0.0	1.6	4.8	4.0	6.4	4.8	8.9	17.7	—
	8	1.6	1.6	0.8	0.8	0.0	1.6	2.4	1.6	3.2	4.8	5.6	8.0	—
	9	3.2	0.8	1.6	1.6	1.6	4.0	3.2	6.4	8.9	11.3	10.5	13.7	—
	10	0.8	1.6	1.6	0.8	0.0	0.0	2.4	8.0	10.5	9.7	9.7	12.9	—
	11	0.8	0.0	0.8	1.6	0.0	0.0	2.4	4.0	6.4	9.7	12.1	9.7	—
	12	0.0	0.8	1.6	0.0	0.8	1.6	6.4	9.7	9.7	7.2	8.0	8.0	—
	13	0.8	1.6	1.6	1.6	3.2	1.6	2.4	3.2	3.2	3.2	5.6	9.7	—
	14	0.8	1.6	0.0	0.0	0.8	1.6	3.2	4.8	8.0	8.9	8.0	4.0	—
	15	1.6	1.6	0.0	0.8	0.0	2.4	4.0	6.4	6.4	8.0	8.0	10.5	—
	16	0.0	1.6	1.6	1.6	3.2	3.2	3.2	4.0	7.2	8.9	11.3	16.1	—
	17	1.6	1.6	0.0	1.6	3.2	3.2	4.0	4.8	4.0	4.8	8.0	11.3	—
	18	4.8	3.2	1.6	0.0	1.6	1.6	3.2	5.6	8.9	8.0	12.1	14.5	—
	19	6.4	5.6	11.3	4.8	3.2	1.6	5.6	1.6	3.2	9.7	13.7	9.7	—
	20	3.2	1.6	1.6	0.8	1.6	2.4	3.2	5.6	5.6	10.5	17.7	17.7	—
	21	0.8	0.0	0.8	1.6	1.6	0.0	1.6	7.2	11.3	15.3	18.5	19.3	—
	22	0.0	0.8	0.8	1.6	3.2	2.4	3.2	4.8	10.5	15.3	15.3	16.1	—
	23	0.8	1.6	1.6	0.8	1.6	1.6	4.8	8.9	16.1	17.7	18.5	16.1	—
	24	0.0	0.8	0.0	0.0	0.8	1.6	4.0	3.2	6.4	8.9	8.9	10.5	—
	25	0.0	0.8	1.6	2.4	0.8	0.0	3.2	2.4	4.0	8.9	6.4	9.7	—
	26	0.0	0.0	0.8	0.0	0.0	1.6	3.2	1.6	1.6	1.6	2.4	7.2	—
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2	7.2	—
	28	0.0	0.0	0.8	0.8	0.8	1.6	1.6	3.2	6.4	7.2	8.0	11.3	—
	29	0.8	0.0	0.8	0.0	0.0	0.0	1.6	0.8	2.4	4.0	6.4	11.3	—
	30	0.0	0.0	0.0	0.8	0.8	0.0	1.6	0.8	2.4	2.4	4.8	8.9	—
	31	0.0	0.0	0.0	0.8	0.0	1.6	1.6	1.6	3.2	4.8	5.6	8.0	—
	Hourly Means.	1.19	1.32	1.35	1.08	1.14	1.50	3.15	4.16	6.45	8.47	9.78	12.11	—

OCTOBER.	Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
	1	17.7	20.1	20.1	13.7	13.7	8.9	6.4	1.6	0.0	0.0	0.0	0.0	7.54
	2	13.7	17.7	20.1	20.1	13.7	9.7	3.2	1.6	0.0	0.8	0.8	0.0	6.80
	3	17.7	19.3	22.5	16.9	11.3	6.4	3.2	0.0	0.0	0.0	0.0	0.0	6.57
	4	17.7	16.1	12.9	12.1	11.3	7.2	1.6	1.6	1.6	0.8	0.8	0.0	5.60
	5	16.9	16.1	15.3	14.5	10.5	6.4	2.4	2.4	8.9	9.7	4.8	1.6	6.91
	6	12.9	13.7	12.9	12.1	6.4	6.4	6.4	3.2	1.6	0.8	1.6	1.6	5.45
	7	17.7	16.1	16.1	10.5	8.0	13.7	8.0	2.4	2.4	2.4	2.4	0.8	6.30
	8	10.5	10.5	8.9	8.0	7.2	8.0	6.4	6.4	4.8	4.8	1.6	1.6	4.61
	9	19.3	20.9	19.3	20.1	18.5	9.7	3.2	1.6	1.6	2.4	2.4	0.8	7.78
	10	16.1	16.1	20.9	17.7	12.9	4.8	1.6	2.4	0.8	0.0	0.0	0.8	6.34
	11	9.7	8.0	3.2	4.0	4.8	0.8	0.8	1.6	1.6	0.8	1.6	0.0	3.52
	12	10.5	17.7	17.7	12.9	6.4	4.0	5.6	5.6	1.6	0.8	0.0	0.0	5.69
	13	9.7	12.9	16.1	11.3	7.2	3.2	1.6	0.0	0.0	0.8	1.6	3.2	4.39
	14	8.0	1.6	1.6	1.6	1.6	6.4	4.8	1.6	0.8	3.2	3.2	1.6	3.24
	15	16.1	16.1	15.3	14.5	13.7	6.4	0.0	0.0	0.0	2.4	1.6	0.8	5.69
	16	17.7	14.5	17.7	17.7	12.1	7.2	1.6	1.6	1.6	0.8	1.6	1.6	6.57
	17	16.1	15.3	16.1	16.1	9.7	4.8	1.6	0.8	1.6	0.8	0.0	0.8	5.49
	18	16.1	16.1	16.1	12.9	14.5	8.0	4.0	1.6	0.8	1.6	4.8	8.0	7.07
	19	8.9	15.3	20.9	15.3	13.7	4.0	2.4	0.8	0.0	0.8	0.8	1.6	6.70
	20	20.9	27.4	28.2	25.7	22.5	11.3	3.2	2.4	1.6	0.0	0.8	1.6	9.05
	21	18.5	16.9	19.3	18.5	13.7	6.4	2.4	0.8	1.6	1.6	0.8	0.0	7.44
	22	16.1	20.1	13.7	17.7	12.1	7.2	2.4	1.6	1.6	1.6	0.0	0.0	7.00
	23	21.7	19.3	20.1	18.5	15.3	9.7	2.4	2.4	1.6	0.8	0.0	0.0	8.41
	24	13.7	17.7	17.7	16.9	14.5	3.2	0.0	0.0	0.0	0.8	0.0	0.8	5.43
	25	11.3	12.1	18.5	16.9	11.3	3.2	0.8	0.0	0.0	0.0	0.0	0.0	4.76
	26	8.9	12.9	14.5	10.5	8.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.15
	27	11.3	12.1	9.7	9.7	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.95
	28	14.5	16.1	16.1	14.5	9.7	6.4	0.8	0.0	0.0	0.0	0.0	1.6	5.06
	29	12.1	12.9	16.1	12.9	8.0	3.2	0.8	0.8	3.2	1.6	0.8	0.8	4.22
	30	8.9	11.3	15.3	14.5	9.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0	3.63
	31	13.7	12.9	14.5	11.3	7.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	3.68
	Hourly Means.	14.34	15.35	16.05	14.18	10.93	6.03	2.50	1.45	1.27	1.29	1.03	0.95	5.71

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	6	5	6	2	10	5	2	1	2	1	2	2	—
	2	1	1	1	1	1	2	1	1	1	5	7	10	—
	3	1	1	2	2	3	5	5	5	4	4	4	6	—
	4	2	4	3	3	3	3	2	1	3	4	6	3	—
	5	1	2	2	1	1	2	2	1	1	3	4	3	—
	6	4	2	1	1	3	5	3	3	2	4	7	6	—
	7	7	6	6	3	4	4	2	2	1	9	10	9	—
	8	7	4	3	4	6	7	3	2	5	8	9	9	—
	9	2	2	3	1	2	3	5	4	3	3	5	8	—
	10	3	2	1	2	2	1	2	0	2	5	9	9	—
	11	2	1	1	1	4	1	2	1	1	2	7	7	—
	12	4	2	3	2	3	3	1	1	1	0	6	7	—
	13	3	5	4	4	5	9	10	10	9	10	9	7	—
	14	4	3	3	3	4	5	7	9	8	9	10	9	—
	15	1	1	2	1	3	1	0	0	0	0	1	5	—
	16	2	1	2	3	6	1	2	1	1	1	3	2	—
	17	0	0	0	0	1	2	0	3	1	5	5	6	—
	18	7	8	4	3	4	5	4	2	2	2	4	5	—
	19	10	10	10	10	10	10	10	8	7	5	6	10	—
	20	10	3	1	1	1	2	2	1	1	0	1	1	—
	21	8	6	6	5	6	4	2	1	1	1	1	1	—
	22	3	3	2	2	2	2	1	1	1	1	6	6	—
	23	2	2	1	0	2	3	2	0	3	5	6	6	—
	24	1	0	0	0	2	2	3	2	2	3	3	4	—
	25	1	9	3	2	7	4	5	2	2	4	9	8	—
	26	4	6	4	6	6	5	2	1	1	1	3	4	—
	27	5	9	4	2	6	3	2	4	1	6	7	7	—
	28	2	2	4	3	4	7	8	2	4	6	3	4	—
	29	3	3	2	2	2	2	4	6	3	5	6	5	—
	30	10	9	7	2	4	4	3	1	3	5	5	3	—
	31	6	3	3	4	7	5	2	1	1	1	3	4	—
Hourly Means.		3.9	3.7	3.0	2.5	4.0	3.8	3.2	2.5	2.5	3.8	5.4	5.7	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	5	7	5	8	4	8	4	3	2	3	4	3	4.2
	2	9	8	5	3	3	3	4	3	2	2	2	2	3.3
	3	6	5	6	5	6	6	7	6	5	4	5	6	4.5
	4	4	3	2	1	1	1	2	6	4	3	4	2	2.9
	5	5	3	3	4	7	6	9	9	10	10	9	8	4.4
	6	7	9	10	10	10	10	9	10	8	10	9	8	6.3
	7	3	3	5	7	8	10	10	8	9	10	10	10	6.5
	8	7	10	6	6	2	7	4	4	6	3	4	2	5.3
	9	7	5	3	5	3	2	3	3	5	4	6	9	4.0
	10	4	4	3	8	7	5	1	0	0	0	0	0	2.9
	11	7	10	8	6	6	5	7	8	9	3	5	6	4.6
	12	2	3	6	9	9	9	9	7	4	7	5	2	4.4
	13	8	7	9	9	10	7	10	7	7	8	3	1	7.1
	14	10	9	9	10	9	9	10	10	6	5	7	6	7.3
	15	3	2	2	3	3	4	3	7	7	8	8	4	2.9
	16	1	6	2	1	2	1	5	4	6	5	4	3	2.7
	17	1	1	0	1	1	2	3	3	5	4	1	1	1.9
	18	5	4	2	1	1	6	6	4	8	7	9	10	4.7
	19	8	3	2	3	2	3	1	0	6	7	8	6	6.5
	20	3	2	2	3	3	4	3	0	0	0	2	2	2.0
	21	1	1	0	0	3	2	2	1	1	3	5	4	2.7
	22	2	1	1	1	1	1	2	2	2	1	0	0	1.8
	23	5	6	5	4	3	5	2	2	1	2	1	1	2.9
	24	3	1	1	2	3	2	9	8	7	6	8	7	3.3
	25	4	3	3	2	3	3	5	7	3	1	0	1	3.8
	26	2	1	1	1	5	5	8	5	7	6	4	2	3.8
	27	3	2	4	2	3	4	5	5	6	5	4	3	4.3
	28	6	3	4	5	6	5	4	8	3	6	2	2	4.3
	29	4	5	4	3	3	8	10	10	10	10	10	10	5.4
	30	6	7	6	4	3	5	7	8	7	3	1	0	4.7
	31	2	0	0	0	2	5	8	4	3	3	2	2	3.0
Hourly Means.		4.6	4.3	3.8	4.1	4.3	4.9	5.5	5.2	5.1	4.8	4.6	4.0	4.13

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	5.4	5.4	5.4	4.8	5.4	3.8	5.4	2.7	2.7	— 1.6	— 0.5	— 16.1	—
2	13.4	13.4	10.2	8.0	7.5	9.1	5.4	0.0	— 3.2	— 1.6	— 5.4	— 2.7	—
3	15.5	15.0	18.2	13.4	11.2	— 2.1	8.6	— 1.1	— 3.8	— 2.7	— 0.5	— 8.0	—
4	7.5	6.4	9.1	7.0	10.2	2.7	7.5	— 1.6	— 1.6	0.0	1.1	— 2.7	—
5	26.8	19.8	19.8	23.0	26.2	31.0	19.3	1.6	— 0.5	1.6	2.1	0.0	—
6	10.2	8.6	8.0	7.5	8.0	7.0	10.2	10.2	3.8	2.7	— 5.4	— 6.4	—
7	8.0	13.4	9.1	10.7	9.6	4.3	4.8	3.2	— 0.5	0.0	2.1	— 5.4	—
8	10.7	11.8	9.6	13.9	9.6	11.8	12.3	9.1	4.3	2.1	2.7	4.8	—
9	—	14.5	10.7	11.8	8.6	15.0	11.8	4.8	6.4	5.9	4.8	4.3	—
10	20.9	14.5	13.4	10.7	13.4	30.0	30.5	—	—	1.6	2.1	0.0	—
11	16.1	12.8	15.0	12.3	11.2	14.5	15.0	— 2.7	— 2.7	1.6	1.1	0.5	—
12	7.0	9.6	9.6	10.2	8.6	11.8	9.6	— 1.1	— 1.1	1.1	2.1	2.1	—
13	9.6	10.2	7.5	5.9	5.9	4.8	4.8	3.8	— 1.1	— 0.5	— 2.7	— 0.5	—
14	6.4	8.6	8.6	10.2	6.4	9.1	9.1	3.8	3.2	3.8	3.8	3.2	—
15	16.1	15.0	12.3	9.6	8.0	9.1	9.1	4.3	1.1	— 2.1	— 1.6	12.3	—
16	7.0	10.2	10.2	14.5	7.5	13.9	9.1	1.6	0.5	3.8	3.2	— 1.1	—
17	16.1	11.2	2.7	2.1	3.2	4.8	7.0	1.6	— 0.5	0.5	2.1	2.7	—
18	20.9	2.7	6.4	6.4	9.6	4.8	11.8	2.7	3.2	1.1	2.7	3.8	—
19	P N	P N	P N	P N	P N	N	5.4	24.1	8.0	3.2	4.8	4.8	—
20	9.6	5.9	3.8	2.7	2.1	9.6	13.9	7.0	2.7	1.6	2.7	2.7	—
21	7.0	9.1	9.1	3.8	2.7	5.4	9.1	5.4	2.1	1.1	3.8	— 1.6	—
22	8.6	3.8	2.1	2.7	2.1	2.1	10.2	3.2	2.7	2.1	1.6	0.5	—
23	11.2	11.8	8.6	6.4	5.9	10.2	9.1	3.2	1.6	— 1.1	1.1	0.5	—
24	12.8	—	—	—	—	10.2	5.9	0.5	— 2.7	0.0	1.1	— 1.6	—
25	7.0	6.4	—	—	—	10.2	5.4	0.5	— 3.8	— 2.7	— 0.5	0.0	—
26	10.7	8.0	6.4	6.4	5.9	9.1	5.4	— 1.1	— 1.6	— 1.1	— 0.5	— 2.7	—
27	10.2	8.6	8.6	8.6	9.6	15.0	10.7	2.1	— 0.5	—	0.0	— 0.5	—
28	7.0	5.4	4.8	4.8	4.3	5.4	4.8	3.2	1.6	— 0.5	1.6	— 2.7	—
29	8.0	7.5	7.0	4.8	4.8	5.4	1.1	— 0.5	— 1.6	— 1.1	— 1.1	— 0.5	—
30	11.2	8.0	4.8	5.4	4.3	6.4	11.8	— 2.7	— 2.1	— 0.5	— 1.6	— 1.6	—
31	7.5	7.5	11.8	12.3	4.8	5.4	4.8	— 0.5	— 5.9	— 1.1	0.0	— 2.1	—
Hourly Means.	11.3	9.8	9.0	8.6	7.7	9.3	9.3	2.9	0.4	0.6	0.9	— 0.5	—

OCTOBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	— 2.7	— 16.1	— 13.4	— 5.4	— 5.9	— 1.6	3.8	5.4	9.6	13.9	13.9	13.9	1.6
2	— 7.5	— 8.0	— 11.8	— 4.3	— 3.2	1.6	4.8	7.0	9.1	17.1	13.9	14.5	3.6
3	— 1.6	— 4.3	— 10.7	— 8.0	— 2.7	— 5.4	5.4	6.4	12.3	14.5	9.1	3.8	3.4
4	N	4.3	— 3.8	0.5	1.1	3.8	9.1	13.4	13.4	23.0	27.8	26.2	7.1
5	0.0	— 0.5	1.6	2.1	3.8	P N	P N	P N	P N	P	9.1	9.6	10.3
6	8.0	N	P	P N	P N	P N	4.8	5.4	8.0	8.6	10.7	9.1	6.3
7	2.1	— 4.3	— 10.7	N	P	P	P	P	29.4	24.6	16.1	11.8	6.8
8	4.3	N	— 1.6	7.0	5.9	5.9	7.5	4.8	9.1	14.5	9.1	—	7.7
9	1.6	3.8	2.1	— 3.2	3.8	5.4	9.1	19.3	21.4	—	—	—	8.1
10	1.6	— 1.1	— 10.7	— 26.8	— 8.6	5.4	5.4	11.2	17.1	19.3	16.1	15.5	8.3
11	4.3	— 11.8	37.5	5.9	4.3	4.3	9.6	5.4	4.8	7.0	8.0	8.6	7.6
12	1.6	1.6	2.7	— 5.4	12.8	8.0	5.4	5.4	9.1	9.1	10.2	9.6	5.8
13	1.1	— 0.5	N	— 1.1	1.1	4.3	6.4	11.8	13.9	9.6	9.1	7.5	4.8
14	3.8	2.1	2.1	2.1	2.7	3.8	4.8	7.0	13.4	18.7	16.6	18.7	7.2
15	N	16.1	4.8	—	2.7	4.3	6.4	7.5	13.4	12.8	9.1	7.0	8.1
16	2.1	1.6	— 5.4	— 4.8	2.1	2.7	1.6	12.8	14.5	18.2	17.1	16.6	6.6
17	2.1	2.7	2.1	3.2	2.7	4.3	7.5	8.0	9.1	5.4	4.3	8.0	4.7
18	1.6	— 0.5	4.8	4.3	3.8	7.5	8.6	16.6	28.4	4.3	10.7	P N	7.2
19	5.4	2.7	4.8	3.8	6.4	10.2	13.4	15.0	14.5	19.3	14.5	8.0	9.4
20	1.1	5.4	2.7	4.8	5.4	3.2	9.1	15.0	23.0	23.5	10.7	9.6	7.4
21	1.6	— 4.3	— 5.4	— 5.4	0.5	5.4	4.8	13.4	13.9	12.8	10.7	6.4	4.6
22	1.6	3.2	1.1	2.1	— 2.1	3.8	4.8	11.8	18.7	17.7	13.9	10.2	5.4
23	— 2.7	— 1.6	0.0	0.0	2.7	1.1	3.2	7.5	10.2	14.5	17.1	15.5	5.7
24	0.0	— 1.6	0.0	— 0.5	— 1.6	3.2	4.3	6.4	9.1	8.0	10.2	8.6	3.6
25	— 0.5	— 1.1	— 8.0	— 3.8	— 5.4	1.1	—	7.5	11.8	13.4	12.8	7.0	2.9
26	— 1.1	— 1.6	— 0.5	0.0	0.5	1.6	4.3	7.0	10.2	11.2	12.3	12.3	4.2
27	0.0	1.1	0.0	— 1.1	0.0	1.1	3.8	7.5	5.9	11.2	8.0	6.4	5.1
28	— 1.1	— 0.5	— 2.7	1.6	1.6	3.8	3.2	8.0	10.7	11.2	10.2	10.7	4.0
29	— 1.6	— 1.6	— 4.8	— 2.7	2.1	2.1	5.4	6.4	6.4	— 13.4	N	N	1.5
30	0.5	— 1.6	— 1.1	— 2.7	1.1	0.5	2.1	4.8	10.2	9.6	12.8	11.2	3.8
31	— 0.5	— 2.7	— 0.5	— 3.2	0.5	— 1.1	4.3	7.0	11.8	18.2	13.9	11.2	4.3
Hourly Means.	0.9	— 0.7	— 0.9	— 1.5	1.3	3.2	5.8	9.1	13.1	13.0	12.3	11.0	5.66

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	8.60	8.19	8.11	8.29	8.54	9.14	9.47	9.67	9.70	9.66	9.22	8.49	—
	2	9.26	8.95	8.89	9.03	9.59	10.00	10.11	10.47	10.34	9.92	9.85	8.92	—
	3	9.20	8.95	8.71	8.82	9.04	9.55	10.08	10.49	10.62	10.45	10.07	9.53	—
	4	9.94	9.84	9.67	9.43	9.68	10.05	10.38	10.73	10.60	10.22	9.65	9.04	—
	5	9.56	9.13	9.11	9.13	9.24	9.84	10.37	10.48	10.37	10.06	9.62	8.71	—
	6	8.78	8.57	8.45	8.19	8.68	9.15	9.74	9.99	10.05	9.91	9.56	8.92	—
	7	9.51	9.04	8.81	8.85	9.04	9.41	9.75	9.88	9.89	9.77	9.37	8.76	—
	8	9.22	8.88	8.73	8.58	8.79	9.23	9.74	9.84	9.85	9.54	9.08	8.37	—
	9	9.45	8.89	8.73	9.21	9.68	9.99	10.41	10.80	10.70	10.26	9.61	8.95	—
	10	8.56	7.93	7.88	8.30	8.43	8.74	9.28	10.00	10.10	9.77	9.18	8.37	—
	11	8.18	7.68	7.54	7.47	8.10	8.43	8.79	9.16	9.58	9.18	8.88	8.47	—
	12	8.97	8.69	8.56	8.34	9.05	9.55	10.25	10.74	10.98	10.74	10.19	9.54	—
	13	10.09	9.79	9.82	9.92	10.34	10.45	10.83	11.14	11.34	11.02	10.64	9.99	—
	14	9.89	9.40	9.16	9.23	9.83	9.99	10.35	10.81	10.83	10.72	10.35	9.61	—
	15	9.43	8.80	8.71	8.90	9.18	9.54	10.13	10.55	10.54	10.43	9.57	8.82	—
	16	9.36	8.83	8.64	8.80	9.18	9.54	9.85	10.23	10.03	9.70	9.40	9.03	—
	17	8.96	8.78	8.74	8.90	9.42	9.65	10.51	10.64	10.77	10.45	10.13	9.33	—
	18	9.00	8.44	8.41	8.23	8.40	8.92	9.44	9.71	9.93	9.38	9.07	8.57	—
	19	8.15	7.78	7.70	7.58	7.88	8.04	8.44	8.52	8.37	8.05	7.56	6.98	—
	20	7.76	7.28	7.09	7.43	7.76	7.95	8.80	9.05	9.16	9.03	8.62	8.11	—
	21	9.51	8.69	8.97	9.10	9.60	9.80	10.36	10.70	10.60	10.47	10.08	9.42	—
	22	9.73	9.65	9.43	9.26	9.79	10.16	10.76	10.74	10.79	10.73	10.41	9.97	—
	23	9.68	9.24	8.97	9.03	9.33	9.76	10.09	10.72	10.76	10.61	10.03	9.37	—
	24	9.59	9.18	9.05	8.97	9.20	9.56	10.16	10.63	10.66	10.46	10.30	9.80	—
	25	10.19	9.53	9.59	9.65	9.80	10.03	10.69	11.13	11.24	11.15	10.68	10.07	—
	26	10.36	10.03	9.70	9.59	9.87	10.12	10.72	10.96	11.05	10.96	10.61	10.10	—
	27	9.85	9.48	9.24	9.21	9.58	9.84	10.13	10.66	10.65	10.13	9.55	9.12	—
	28	9.42	9.03	8.78	8.80	9.43	10.04	10.46	11.24	11.49	11.01	10.09	9.44	—
	29	9.62	9.12	8.89	9.16	9.34	9.90	10.40	10.78	10.86	10.57	10.05	9.26	—
	30	9.34	8.65	8.39	8.36	8.82	9.19	9.77	10.06	10.45	10.34	9.88	9.36	—
Hourly Means.		9.31	8.88	8.75	8.79	9.15	9.52	10.01	10.35	10.41	10.16	9.71	9.08	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	7.93	7.49	7.47	7.51	7.82	8.10	8.65	9.33	10.11	10.48	10.28	9.89	8.84
	2	7.85	7.21	6.92	6.96	7.11	7.82	8.32	8.61	9.16	9.37	9.42	9.46	8.90
	3	8.69	8.23	8.07	7.95	8.17	9.10	9.52	10.03	10.48	10.80	10.75	10.33	9.48
	4	8.27	7.80	7.51	7.42	7.34	8.02	8.70	9.34	9.70	9.66	9.70	9.53	9.26
	5	8.03	7.16	6.76	7.13	7.18	7.81	8.62	8.96	9.39	9.72	9.60	9.49	8.98
	6	8.31	7.80	7.48	7.21	7.42	8.37	8.67	9.22	9.61	9.94	10.24	9.92	8.92
	7	7.86	7.24	6.59	6.61	6.96	7.66	8.41	9.19	9.68	9.92	9.75	9.40	8.81
	8	7.70	7.40	7.01	6.96	7.71	8.08	8.73	9.40	9.91	9.95	9.94	9.63	8.84
	9	8.35	7.62	7.12	7.02	7.40	7.99	8.45	8.78	9.16	9.19	9.02	8.93	8.99
	10	7.63	7.17	6.57	7.27	6.79	7.28	8.04	8.32	8.65	8.94	8.91	8.83	8.37
	11	7.56	6.81	6.52	6.42	6.68	7.69	8.42	9.08	9.86	10.01	9.86	9.59	8.33
	12	8.69	8.16	7.85	7.80	7.93	8.58	9.54	10.12	10.70	10.83	10.85	10.30	9.46
	13	9.00	8.32	7.93	7.81	7.92	8.50	9.56	10.45	10.39	10.70	10.72	10.24	9.87
	14	8.25	8.37	7.64	7.23	7.67	8.42	8.64	9.32	9.74	10.26	9.89	9.68	9.39
	15	8.45	7.71	7.05	6.91	7.51	7.40	9.14	9.41	9.67	9.95	9.98	9.81	9.07
	16	8.05	7.02	6.43	6.28	6.83	7.59	8.41	9.08	9.61	9.72	9.67	9.31	8.77
	17	8.44	7.73	7.19	6.86	7.66	8.96	8.73	9.42	9.63	9.93	9.72	9.34	9.16
	18	7.92	6.90	6.58	6.51	6.57	7.12	7.48	8.28	8.64	8.90	8.75	8.48	8.32
	19	6.27	5.47	5.05	5.31	5.99	6.80	7.11	7.98	8.16	8.22	8.18	7.92	7.40
	20	7.61	7.13	6.17	6.65	6.94	7.47	8.27	8.82	9.54	10.10	9.95	9.74	8.18
	21	8.86	8.28	7.87	7.75	8.13	8.93	9.24	9.91	10.31	10.45	10.38	9.93	9.47
	22	8.93	8.49	7.82	7.67	7.97	8.43	9.08	9.54	10.34	10.47	10.41	10.30	9.62
	23	8.36	7.80	7.18	7.45	7.88	8.56	9.36	9.98	10.27	10.43	10.37	9.96	9.38
	24	9.03	8.47	8.27	8.33	8.61	9.41	10.02	10.42	10.90	10.79	10.99	10.68	9.73
	25	9.22	8.76	9.27	10.16	10.10	10.19	10.58	10.79	10.81	10.98	10.95	10.71	10.26
	26	9.12	8.56	8.32	8.66	9.33	9.80	10.29	10.39	10.74	10.79	10.72	10.27	10.04
	27	8.68	8.43	8.31	8.15	8.58	9.03	9.88	10.27	10.51	10.70	10.59	10.17	9.61
	28	8.83	8.50	8.38	8.04	8.78	9.27	9.79	10.14	10.26	10.33	10.23	9.95	9.66
	29	8.71	7.86	8.13	8.43	9.06	9.25	10.15	10.69	10.89	10.80	10.48	9.81	9.68
	30	8.82	8.22	7.87	8.07	8.45	8.55	9.36	9.96	10.59	10.45	10.58	10.25	9.32
Hourly Means.		8.31	7.74	7.38	7.42	7.75	8.34	8.97	9.51	9.91	10.09	10.03	9.73	9.14

STANDARD THERMOMETER.

NOVEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	77.2	76.7	75.8	75.1	74.6	74.3	75.6	78.2	81.7	84.2	88.2	90.0	—
2	75.0	74.3	74.1	73.9	73.1	72.8	75.1	79.2	83.0	86.1	88.9	90.7	—
3	76.2	75.5	74.9	74.2	74.2	74.2	76.3	80.6	83.4	86.6	87.5	87.7	—
4	75.6	75.1	75.0	75.0	74.8	74.1	76.0	80.0	84.1	87.3	89.0	88.7	—
5	77.3	76.6	76.6	76.3	75.7	75.1	77.5	81.0	84.2	86.5	88.1	89.7	—
6	78.0	77.1	76.6	75.8	75.2	75.1	77.0	80.6	83.7	85.0	86.2	86.6	—
7	77.0	76.5	75.7	75.1	75.0	74.7	77.0	80.7	83.6	86.8	87.3	88.0	—
8	77.6	77.6	77.0	76.4	75.4	75.0	76.8	80.0	83.2	86.3	89.2	87.8	—
9	75.3	74.0	74.0	74.0	73.9	74.0	74.8	75.6	76.7	79.7	82.2	83.5	—
10	77.8	77.5	77.0	76.4	76.4	76.1	77.0	79.0	81.0	83.7	86.0	84.2	—
11	77.0	76.8	76.1	75.5	75.0	74.8	74.8	79.5	83.1	84.1	83.7	84.6	—
12	75.4	75.1	75.0	74.8	75.0	75.2	75.8	76.6	78.2	80.0	82.2	83.6	—
13	76.7	76.4	76.0	75.5	75.3	74.9	77.0	80.2	81.5	84.2	85.8	86.0	—
14	74.0	73.7	73.5	73.5	73.4	73.1	76.1	80.3	82.8	85.5	85.0	84.5	—
15	75.9	75.3	74.7	74.0	74.0	74.1	76.3	80.2	83.1	85.0	87.4	86.0	—
16	77.2	76.9	76.0	76.0	75.8	75.8	77.6	81.0	84.2	87.2	90.0	86.5	—
17	76.5	76.5	75.8	75.6	75.0	75.0	77.0	81.7	85.0	86.4	85.8	87.0	—
18	74.8	74.4	74.2	73.7	73.5	73.0	75.1	79.2	83.4	86.1	87.0	88.6	—
19	77.0	76.2	76.0	75.4	75.0	74.8	77.0	81.2	85.2	88.1	90.6	91.0	—
20	77.8	76.0	75.6	75.0	74.2	74.1	75.4	79.2	83.7	86.6	88.8	88.0	—
21	76.0	75.5	75.0	74.4	74.2	74.0	75.2	79.9	83.7	86.5	86.5	87.9	—
22	76.0	75.3	74.9	74.4	74.0	73.8	76.5	80.6	84.0	86.0	85.8	82.0	—
23	77.2	76.6	76.2	76.0	75.8	75.8	77.1	81.0	83.2	86.4	86.7	86.1	—
24	76.1	75.8	75.1	74.8	74.9	74.6	76.2	79.4	83.1	84.1	83.6	83.1	—
25	76.1	75.6	75.5	75.1	74.7	74.3	76.6	80.0	82.5	84.7	84.7	86.3	—
26	74.2	74.0	73.7	73.1	73.1	72.9	74.6	77.1	80.5	84.0	86.2	86.1	—
27	75.7	75.2	75.0	75.0	74.6	74.6	76.8	80.0	83.6	85.8	85.5	86.7	—
28	76.2	75.7	75.3	75.0	74.6	74.4	76.8	79.6	80.0	83.2	86.4	85.9	—
29	76.0	75.7	75.3	75.0	74.8	74.3	76.1	79.8	83.0	85.8	87.3	87.1	—
30	74.9	74.4	73.7	73.3	73.1	73.5	75.0	77.8	81.0	83.6	85.5	85.3	—
Hourly Means.	76.26	75.73	75.31	74.91	74.61	74.41	76.20	79.64	82.65	85.18	86.57	86.64	—

NOVEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	89.0	88.0	87.7	87.4	85.9	84.2	81.4	79.4	78.0	77.2	76.2	75.7	80.90
2	88.7	88.5	87.0	86.0	84.6	83.7	82.3	81.0	80.0	79.0	78.1	77.0	80.92
3	88.0	88.0	86.8	86.0	86.0	84.5	82.1	80.5	79.1	78.3	77.1	76.2	81.00
4	88.0	87.5	87.4	86.4	85.5	84.0	82.4	81.1	80.0	79.0	78.2	78.1	81.35
5	88.4	87.0	86.7	86.7	85.3	84.3	83.6	82.9	82.4	81.6	80.4	79.4	82.22
6	87.3	86.8	86.3	85.0	84.2	84.0	82.0	80.4	79.5	78.3	78.1	77.6	81.10
7	88.1	87.7	87.1	86.3	84.7	84.0	83.5	80.5	79.7	79.3	79.4	79.1	81.53
8	86.0	85.4	85.0	84.7	84.5	82.8	80.7	79.1	77.5	77.7	77.0	77.1	80.83
9	85.0	86.4	85.0	85.2	83.7	82.7	81.6	81.0	80.2	79.7	79.0	78.7	79.41
10	84.6	84.4	85.0	81.5	80.9	80.5	79.0	78.6	77.7	77.9	77.3	77.2	79.86
11	86.0	87.2	85.0	84.8	83.7	82.9	82.5	81.5	76.4	76.0	76.0	75.8	80.12
12	84.2	83.9	84.1	83.8	82.7	81.7	80.7	79.4	79.2	78.5	77.8	77.2	79.17
13	86.3	86.4	86.0	85.5	84.5	83.1	82.5	79.9	77.7	76.1	75.0	74.2	80.28
14	86.5	80.0	79.6	82.6	82.6	81.2	80.2	79.5	79.0	78.1	77.4	76.8	79.12
15	86.5	86.9	85.7	85.1	84.6	83.5	81.6	80.0	79.3	79.0	78.1	77.5	80.58
16	89.0	88.1	87.8	88.1	87.0	85.2	83.0	81.1	79.2	78.5	77.8	77.3	81.93
17	86.7	86.0	86.0	85.1	84.2	80.0	78.0	76.8	76.6	75.9	75.5	75.1	80.13
18	87.6	88.0	86.7	85.7	85.0	84.0	82.7	80.7	80.0	79.0	78.1	77.6	80.75
19	92.2	93.1	90.5	89.4	87.0	84.9	83.5	81.5	80.4	79.7	78.7	77.8	82.76
20	88.0	87.8	87.0	85.2	84.8	84.1	82.3	80.4	79.0	78.1	77.7	77.1	81.08
21	88.1	87.1	86.6	84.9	84.1	83.2	80.6	79.4	78.9	78.7	77.1	76.5	80.58
22	84.4	84.1	85.1	84.3	83.6	83.0	82.0	80.7	79.9	78.9	78.1	77.9	80.22
23	88.5	87.0	87.5	86.0	85.0	84.0	83.5	81.0	78.8	78.0	77.2	76.6	81.30
24	84.0	83.4	82.6	82.8	82.6	81.6	80.2	79.0	78.2	77.4	76.8	76.4	79.41
25	86.0	86.0	84.1	77.6	76.0	75.6	75.2	75.0	75.0	75.0	74.8	74.6	78.38
26	86.7	87.1	85.0	84.9	84.0	81.0	78.5	77.9	77.9	77.1	76.7	76.3	79.28
27	82.6	82.6	83.1	83.6	82.6	80.7	79.4	78.8	78.0	77.4	77.0	76.8	79.63
28	86.0	84.6	83.0	82.8	82.8	80.1	78.5	77.8	77.5	77.4	77.0	76.7	79.47
29	88.4	87.1	86.0	76.2	77.1	76.9	76.7	76.7	76.5	76.3	75.7	75.3	79.13
30	85.9	85.0	84.8	82.2	80.0	78.6	77.6	77.4	77.0	76.9	76.6	76.4	78.73
Hourly Means.	86.89	86.37	85.67	84.53	83.64	82.33	80.93	79.63	78.62	78.00	77.33	76.87	80.37

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	875	874	880	879	887	878	832	821	736	636	471	455	—
	2	871	870	869	877	886	902	840	757	651	570	484	499	—
	3	881	889	888	895	895	887	817	746	678	577	581	619	—
	4	864	872	863	863	863	878	833	759	623	533	525	540	—
	5	851	866	866	873	872	888	828	748	676	577	555	558	—
	6	860	875	874	889	880	897	827	754	693	646	613	583	—
	7	866	873	880	897	863	888	827	732	653	583	574	612	—
	8	828	805	834	857	897	897	866	774	672	570	538	606	—
	9	863	912	887	869	895	903	846	856	803	743	668	639	—
	10	813	812	818	825	850	873	811	779	747	639	624	668	—
	11	842	826	833	855	871	871	863	780	712	682	639	696	—
	12	939	956	956	965	956	956	940	932	893	848	786	741	—
	13	932	932	931	948	947	913	843	731	763	688	693	675	—
	14	869	903	920	929	929	920	857	789	718	640	677	716	—
	15	940	939	965	965	947	947	906	782	712	639	575	655	—
	16	907	916	923	923	931	931	900	799	689	569	512	670	—
	17	906	899	914	898	904	904	835	749	645	638	673	671	—
	18	913	930	938	946	937	946	905	765	679	594	604	570	—
	19	900	915	915	922	914	913	851	727	659	573	528	486	—
	20	884	915	914	922	930	921	856	785	673	547	513	595	—
	21	872	880	888	904	912	912	889	796	686	595	639	601	—
	22	848	871	879	896	903	920	850	761	674	636	654	806	—
	23	900	906	923	923	923	923	900	798	733	613	584	618	—
	24	873	889	913	913	922	921	865	802	719	708	720	760	—
	25	899	923	922	930	922	930	891	803	702	637	676	638	—
	26	947	956	956	955	946	955	930	860	755	655	631	643	—
	27	923	939	930	922	930	930	891	825	713	655	679	652	—
	28	923	931	939	939	939	939	916	848	803	726	619	655	—
	29	931	923	930	947	939	947	906	825	712	648	599	654	—
	30	947	947	947	946	955	938	956	868	734	720	692	678	—
Hourly Means.		889	898	903	909	912	914	869	792	710	636	611	632	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	497	525	529	538	543	602	703	755	797	803	816	840	716
	2	575	540	592	611	650	699	750	789	802	823	845	874	734
	3	602	601	608	642	648	662	749	767	793	814	819	841	746
	4	566	575	563	607	653	713	758	783	824	838	852	844	733
	5	603	646	651	657	678	728	761	801	822	813	818	839	749
	6	622	671	682	724	728	755	741	788	816	821	820	843	767
	7	595	612	634	631	669	693	740	767	824	801	801	784	742
	8	635	685	606	657	708	731	782	823	859	844	851	819	757
	9	576	540	639	620	665	702	769	789	811	824	822	858	771
	10	682	708	697	697	702	722	807	829	859	875	891	851	774
	11	642	580	645	717	726	794	786	776	915	940	940	940	786
	12	743	742	722	755	794	807	872	894	902	908	917	932	869
	13	683	650	675	679	709	760	779	765	797	832	822	853	792
	14	644	833	870	731	745	827	871	894	909	917	907	932	831
	15	664	633	635	670	688	747	784	833	870	885	884	891	798
	16	612	638	643	626	646	677	745	805	831	861	875	883	771
	17	677	700	714	731	756	750	844	874	865	880	905	913	802
	18	612	595	671	673	690	721	773	812	825	839	877	884	779
	19	435	450	542	560	645	723	781	836	864	848	869	892	740
	20	607	588	665	658	716	741	778	774	800	820	828	842	761
	21	602	672	651	696	735	739	752	793	814	821	748	825	768
	22	716	742	691	702	734	767	785	834	848	885	901	892	800
	23	540	615	604	630	665	700	719	775	822	836	851	857	765
	24	755	754	780	766	752	777	774	815	837	851	874	890	818
	25	661	641	687	875	923	939	947	956	956	956	956	947	847
	26	620	597	665	670	693	775	829	835	844	883	890	906	808
	27	738	745	767	741	816	842	886	885	892	907	916	916	835
	28	674	722	774	787	787	825	837	876	900	907	907	916	837
	29	646	641	688	915	924	916	924	932	940	948	957	947	847
	30	681	717	730	778	840	877	883	900	883	874	899	915	846
Hourly Means.		631	645	667	691	721	757	797	825	851	862	869	879	786

DIRECTION OF THE WIND.

NOVEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	SW	SE	E
2	C	NNE	C	C	C	C	NNE	C	SW	S	SE	NE
3	C	C	NE	NE	NE	NE	NE	SSW	SSW	E	N	NE
4	C	C	C	C	C	C	C	C	SW	SE	NE	NE
5	C	C	C	C	C	WSW	WSW	SSW	WSW	NE	NW	N
6	C	C	C	C	C	C	WSW	C	SW	NW	NNW	N
7	C	C	C	C	C	C	C	SSW	S	E	ENE	NNE
8	SSW	C	C	C	C	C	C	C	NE	NE	S	NNE
9	S	SSW	SSW	E	C	C	C	SSE	C	S	SSW	C
10	WSW	WSW	WSW	C	C	WSW	WSW	W	NW	NW	WNW	N
11	SW	SW	C	C	C	SW	SW	SSW	SSW	W	NE	N
12	C	C	C	NE	C	C	C	C	ENE	ENE	E	E
13	C	C	C	C	C	NE	ENE	SSW	SSW	ENE	NNE	N
14	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SE	NE	N
15	C	C	C	C	C	NE	NE	SSW	ESE	NE	NNE	NE
16	C	C	C	C	C	SSW	SSW	SE	SE	ESE	E	NNE
17	C	C	C	C	NE	C	NE	E	E	ESE	N	NNE
18	C	C	C	C	C	SW	SW	SW	ESE	SE	NNE	NE
19	C	C	C	C	N	N	NW	SSW	SE	ESE	E	E
20	C	ENE	C	ENE	ENE	ENE	ENE	SSE	E	E	E	NNE
21	C	C	C	C	C	C	C	WNW	NE	NE	N	NNE
22	C	C	C	C	C	C	SW	SW	SW	E	N	NE
23	NNE	C	NNE	NNE	NNE	NNE	NNE	SSE	SSE	E	SW	ENE
24	ESE	C	C	C	C	ESE	SE	SE	SSE	NE	NNW	NW
25	C	C	C	C	C	C	C	WNW	N	NNE	N	NNE
26	C	C	C	C	C	C	SW	C	E	ENE	NE	NE
27	C	S	C	C	C	S	C	S	SE	E	N	NNE
28	C	C	C	C	C	C	WSW	NNE	ENE	E	ENE	NNE
29	C	C	C	C	C	WSW	WSW	SW	SW	WNW	N	NNE
30	C	C	C	C	C	C	C	SW	W	N	N	NE

NOVEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NE	NNE	NNE	NNE	NE	C	C	C	C	C	C	C
2	NNE	NNE	NNE	NNE	NE	NE	C	C	C	C	C	C
3	NE	NNE	NNE	NNE	NE	C	C	C	C	C	C	C
4	NNE	N	NNE	NNE	N	C	C	C	C	C	C	C
5	N	N	N	NE	N	N	C	C	C	C	C	C
6	NE	NNE	N	N	NNW	NNW	SW	C	C	C	C	C
7	NNE	NE	NE	NNE	N	C	N	SW	SSW	SSW	SSW	SSW
8	NE	NNE	NNE	NE	NE	WSW	WSW	SW	SW	SW	SW	S
9	C	NE	NNE	NE	N	C	C	C	C	C	C	WSW
10	N	N	NE	SW	C	C	C	C	C	C	SW	SW
11	NNE	NNE	NNE	NE	NNE	NE	C	N	ENE	NNE	NE	C
12	N	NE	ENE	NE	NE	C	C	C	C	C	C	C
13	NNE	NNE	NE	NNE	NE	NE	NE	SSW	SW	SSW	SSW	SSW
14	NE	ENE	C	NE	NE	C	C	C	C	C	C	C
15	N	NNE	NNE	NE	NE	NE	SSW	SSW	SSW	SSW	C	C
16	NNE	NNE	NE	NE	NE	NE	NE	NE	C	C	C	C
17	NNE	NNE	NNW	NNE	NNW	SW	WSW	SW	C	C	C	C
18	NNE	NE	NNE	NNW	N	N	C	C	C	C	C	C
19	ENE	ENE	NE	NE	NE	NE	ENE	ENE	ENE	C	C	C
20	N	N	N	SW	NNW	NNW	WNW	C	WNW	WNW	C	C
21	NNE	N	NNE	N	N	WSW	SW	SW	SW	SW	SW	SW
22	NE	NE	NE	NE	NNE	NNE	C	NNE	NNE	C	NNE	NNE
23	NW	N	N	N	N	N	N	S	S	S	S	S
24	NNE	N	N	N	N	N	WNW	C	C	C	C	C
25	NNE	NNE	ENE	SW	SW	SW	SW	SW	C	C	C	C
26	N	NNE	NNE	N	N	SE	S	S	C	S	C	C
27	E	E	NE	N	N	WSW	WSW	C	C	C	C	C
28	NNE	NNE	NE	NE	NE	NE	WSW	WSW	WSW	C	C	C
29	NNE	N	SW	SW	WSW	SW	SW	C	C	C	C	C
30	NNE	N	N	WSW	SW	S	S	S	S	S	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	0.8	0.8	0.8	1.6	0.8	0.8	1.6	0.8	1.6	4.0	8.9	10.5	—
	2	0.0	0.8	0.0	0.0	0.0	0.0	1.6	0.0	0.8	1.6	4.8	6.4	—
	3	0.0	0.0	1.6	1.6	3.2	2.4	3.2	2.4	2.4	3.2	5.6	8.9	—
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4	4.8	10.5	—
	5	0.0	0.0	0.0	0.0	0.0	1.6	3.2	1.6	1.6	2.4	3.2	6.4	—
	6	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.8	1.6	6.4	11.3	—
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	4.8	13.7	—
	8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	5.6	—
	9	8.0	3.2	3.2	2.4	0.0	0.0	0.0	0.8	0.0	1.6	1.6	0.0	—
	10	1.6	0.8	0.8	0.0	0.0	0.8	2.4	1.6	4.8	1.6	4.8	8.0	—
	11	1.6	1.6	0.0	0.0	0.0	1.6	3.2	4.0	4.0	2.4	8.9	8.9	—
	12	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.6	2.4	1.6	1.6	—
	13	0.0	0.0	0.0	0.0	0.0	0.8	4.8	4.8	4.8	8.0	7.2	12.1	—
	14	0.8	1.6	1.6	2.4	2.4	1.6	3.2	0.8	4.8	5.6	6.4	7.2	—
	15	0.0	0.0	0.0	0.0	0.0	0.8	3.2	4.0	4.0	4.8	8.9	13.7	—
	16	0.0	0.0	0.0	0.0	0.0	1.6	1.6	2.4	8.9	13.7	12.9	16.1	—
	17	0.0	0.0	0.0	0.0	0.8	0.0	0.8	3.2	8.9	5.6	5.6	12.9	—
	18	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	4.0	6.4	5.6	12.9	—
	19	0.0	0.0	0.0	0.0	0.8	0.8	4.8	5.6	11.3	16.1	16.1	16.1	—
	20	0.0	1.6	0.0	1.6	1.6	1.6	1.6	1.6	4.8	8.0	7.2	12.9	—
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	5.6	8.0	14.5	—
	22	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	5.6	9.7	8.0	
	23	0.8	0.0	1.6	1.6	0.8	0.8	1.6	4.8	4.0	3.2	4.0	9.7	—
	24	1.6	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6	7.2	8.0	6.4	—
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	6.4	8.0	9.7	—
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.2	4.0	4.8	6.4	—
	27	0.0	0.8	0.0	0.0	0.0	0.8	0.0	1.6	3.2	3.2	1.6	7.2	—
	28	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	4.8	4.8	8.0	9.7	—
	29	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.0	3.2	3.2	6.4	11.3	—
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	6.4	11.3	—
Hourly Means.		0.56	0.37	0.32	0.40	0.35	0.61	1.55	1.95	3.58	4.94	6.45	9.66	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	8.9	8.9	9.7	9.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.19
	2	11.3	10.5	13.7	11.3	7.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.95
	3	9.7	8.9	11.3	9.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.25
	4	10.5	12.9	16.1	14.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.62
	5	12.9	14.5	11.3	8.9	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	3.15
	6	12.9	12.1	12.9	12.1	3.2	2.4	0.8	0.0	0.0	0.0	0.0	0.0	3.29
	7	11.3	13.7	11.3	8.0	1.6	0.0	0.8	4.0	1.6	3.2	1.6	1.6	3.45
	8	14.5	9.7	8.0	6.4	1.6	1.6	0.8	3.2	1.6	1.6	4.0	6.4	3.18
	9	0.0	4.8	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.37
	10	7.2	8.0	6.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.23
	11	8.9	8.0	12.1	11.3	8.0	2.4	0.0	0.8	6.4	0.8	2.4	0.0	4.05
	12	7.2	10.5	8.9	8.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.95
	13	13.7	15.3	14.5	11.3	10.5	4.8	0.8	8.0	3.2	3.2	2.4	0.8	5.46
	14	8.0	6.4	0.0	3.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.43
	15	9.7	16.1	14.5	12.9	8.0	3.2	3.2	1.6	0.8	0.8	0.0	0.0	4.59
	16	9.7	14.5	16.1	16.1	12.9	4.8	0.8	0.8	0.0	0.0	0.0	0.0	5.54
	17	12.1	12.1	12.1	9.7	6.4	7.2	3.2	4.0	0.0	0.0	0.0	0.0	4.36
	18	12.9	12.9	9.7	6.4	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.32
	19	16.9	16.1	17.7	22.5	14.5	8.0	1.6	0.8	0.8	0.0	0.0	0.0	7.10
	20	13.7	14.5	13.7	3.2	1.6	0.8	0.8	0.0	0.8	0.8	0.0	0.0	3.85
	21	16.1	14.5	13.7	7.2	1.6	3.2	3.2	4.8	1.6	2.4	4.8	0.8	4.52
	22	12.9	12.9	12.1	8.9	4.0	0.8	0.0	0.8	0.8	0.0	0.8	1.6	3.49
	23	9.7	8.0	9.7	9.7	6.4	4.0	2.4	3.2	3.2	2.4	1.6	0.8	3.92
	24	8.9	9.7	5.6	3.2	1.6	0.8	1.6	0.0	0.0	0.0	0.0	0.0	2.44
	25	14.5	12.9	9.7	9.7	1.6	2.4	2.4	1.6	0.0	0.0	0.0	0.0	3.45
	26	12.9	14.5	9.7	6.4	4.8	6.4	2.4	1.6	0.0	0.8	0.0	0.0	3.28
	27	9.7	5.6	4.8	4.8	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	1.97
	28	11.3	13.7	8.9	4.8	0.8	4.8	3.2	1.6	1.6	0.0	0.0	0.0	3.52
	29	12.9	12.9	12.1	9.7	1.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	3.52
	30	11.3	11.3	6.4	3.2	4.0	4.0	2.4	2.4	3.2	1.6	0.0	0.0	3.08
Hourly Means.		11.07	11.55	10.53	8.59	4.65	2.32	1.09	1.31	0.85	0.59	0.61	0.51	3.52

CLOUDS.

CLEAR = 0. OVERCAST = 10.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	
NOVEMBER. 1	1	1	1	2	3	4	4	6	6	7	6	6	—
2	1	1	0	0	2	3	2	1	0	1	3	4	—
3	1	1	1	2	2	2	3	2	3	4	4	3	—
4	1	1	0	0	2	1	1	0	0	0	1	0	—
5	2	4	2	2	4	1	2	1	1	2	4	4	—
6	2	2	1	0	1	2	1	0	1	0	8	8	—
7	2	2	1	1	2	3	1	0	0	3	3	4	—
8	4	3	3	3	3	1	3	3	2	4	5	8	—
9	10	10	10	10	10	9	10	10	10	9	9	10	—
10	6	10	10	7	7	1	7	8	6	7	7	8	—
11	10	5	3	1	2	2	6	1	6	9	10	10	—
12	4	8	5	4	8	10	10	10	9	9	9	10	—
13	2	2	3	3	2	1	4	3	6	7	7	6	—
14	1	1	0	0	1	1	1	1	7	7	10	6	—
15	4	1	2	3	2	6	2	1	2	7	6	3	—
16	9	1	2	1	2	3	1	3	3	1	1	7	—
17	4	5	3	2	3	7	8	6	4	5	7	5	—
18	2	2	1	1	1	0	2	1	2	6	6	3	—
19	4	4	3	1	2	2	4	1	1	6	6	7	—
20	4	6	4	1	6	2	3	3	1	2	6	3	—
21	0	0	4	3	3	3	1	1	0	7	9	6	—
22	8	7	6	4	4	6	4	3	3	7	7	9	—
23	4	3	7	3	3	6	8	7	7	6	8	9	—
24	3	3	1	2	8	6	7	5	6	9	10	10	—
25	10	10	10	6	6	4	2	6	6	7	7	7	—
26	5	7	3	2	4	4	2	6	6	3	4	7	—
27	2	3	4	4	5	7	4	3	5	5	8	9	—
28	3	3	2	4	4	4	5	9	8	8	6	8	—
29	2	1	1	1	1	1	1	0	0	6	6	5	—
30	3	2	6	5	10	10	4	3	6	7	7	7	—
Hourly Means.	3.8	3.6	3.3	2.6	3.8	3.7	3.8	3.5	3.9	5.4	6.3	6.4	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER. 1	4	4	5	6	5	7	5	4	3	3	2	1	4.0
2	2	1	1	1	1	3	2	1	1	2	1	1	1.5
3	1	2	1	0	0	1	2	6	3	1	3	2	2.1
4	1	2	2	1	2	3	1	0	0	0	1	2	0.9
5	8	2	1	2	4	5	3	2	5	4	2	3	2.9
6	5	6	2	2	3	6	5	5	3	3	3	1	2.9
7	1	1	0	0	0	1	9	8	10	6	9	7	3.1
8	7	8	9	8	9	10	10	9	10	9	9	9	6.2
9	9	9	10	8	8	9	10	10	10	10	10	8	9.5
10	9	8	6	10	8	4	7	4	8	4	5	8	6.9
11	2	3	8	8	6	7	9	10	10	10	10	9	6.5
12	8	8	9	5	6	6	2	9	4	4	2	2	6.7
13	5	4	4	4	3	5	10	10	6	4	3	2	4.4
14	5	9	10	5	7	6	4	6	3	1	1	0	3.9
15	1	1	1	1	2	9	4	3	9	5	8	4	3.6
16	6	6	7	3	3	3	2	1	1	2	2	1	3.0
17	6	9	6	2	10	10	2	2	3	7	3	3	5.1
18	2	2	4	4	4	5	6	1	1	1	4	6	2.8
19	4	3	3	4	4	3	5	7	3	2	1	0	3.3
20	1	0	1	6	5	3	2	3	6	7	6	4	3.5
21	1	1	3	5	6	7	5	4	4	4	6	6	3.7
22	9	9	9	10	10	7	8	3	2	3	2	4	6.0
23	9	7	5	5	6	9	10	9	7	3	4	3	6.2
24	9	9	10	10	10	10	8	7	4	4	10	9	7.1
25	6	7	10	10	10	10	10	10	9	5	3	4	7.3
26	4	3	6	6	9	10	10	10	8	5	5	3	5.5
27	10	8	10	10	10	7	3	2	3	3	5	2	5.5
28	8	10	10	9	10	10	6	6	6	5	4	3	6.3
29	3	6	10	10	9	10	10	10	10	9	8	5	5.2
30	9	9	10	10	10	10	8	9	10	6	7	8	7.3
Hourly Means.	5.2	5.2	5.8	5.5	6.0	6.5	5.9	5.7	5.4	4.4	4.6	4.0	4.76

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	11.8	7.5	6.4	4.8	5.9	4.8	4.3	2.7	— 1.6	0.0	0.5	— 0.5	—
	2	9.6	7.0	6.4	7.5	10.2	8.0	9.1	— 0.5	0.0	0.5	— 0.5	— 1.1	—
	3	11.8	8.6	7.0	6.4	5.4	6.4	5.4	— 1.6	— 0.5	— 1.1	— 2.1	— 3.8	—
	4	9.1	7.0	7.0	5.4	5.9	12.8	8.0	1.6	1.1	1.1	— 3.8	— 1.6	—
	5	10.7	7.0	6.4	5.9	5.9	6.4	4.8	— 5.4	— 3.8	— 2.7	— 2.1	— 1.6	—
	6	7.0	7.0	7.0	5.4	7.0	4.3	7.0	— 0.5	— 2.7	— 1.6	— 2.1	— 2.7	—
	7	7.0	7.0	6.4	5.9	5.4	— 1.1	3.8	0.0	— 0.5	— 3.2	— 3.2	— 3.2	—
	8	3.8	4.8	5.4	5.9	7.0	6.4	5.4	0.0	— 1.1	— 0.5	— 2.1	— 1.6	—
	9	1.6	— 1.1	6.4	5.9	5.4	2.7	1.6	0.5	3.8	3.8	3.2	2.1	—
	10	4.8	5.4	4.8	4.3	8.0	5.9	2.7	2.1	4.3	2.7	1.6	1.6	—
	11	7.5	6.4	8.6	7.0	8.0	4.8	8.0	3.8	2.1	2.7	— 0.5	— 2.1	—
	12	19.3	12.3	12.3	15.0	11.2	12.3	14.5	7.0	5.4	4.3	4.3	2.7	—
	13	10.7	8.0	5.4	5.4	4.3	6.4	3.8	0.0	2.7	1.1	2.7	2.1	—
	14	7.5	7.0	6.4	5.4	5.4	7.0	6.4	3.2	2.1	1.6	1.6	3.8	—
	15	18.2	15.0	14.5	11.8	11.2	9.1	10.2	0.0	1.6	1.6	2.7	2.1	—
	16	9.1	8.6	5.9	5.9	5.4	9.1	9.6	0.0	1.6	0.5	1.6	1.6	—
	17	13.4	10.2	7.5	5.4	7.0	7.5	8.6	4.8	1.1	1.6	2.1	1.6	—
	18	9.6	11.2	10.7	10.7	11.2	9.1	10.2	2.1	1.6	0.5	1.1	0.0	—
	19	17.1	13.4	11.8	13.4	9.1	9.1	7.5	— 4.3	— 0.5	— 1.6	— 0.5	— 1.1	—
	20	18.2	16.6	10.7	10.7	10.2	6.4	9.1	1.6	— 1.1	0.5	— 0.5	0.0	—
	21	8.6	7.0	8.6	7.5	6.4	6.4	8.6	2.1	1.6	0.0	0.0	— 0.5	—
	22	6.4	4.8	7.5	8.0	7.5	8.6	6.4	— 4.3	2.1	0.0	0.5	P N	—
	23	9.6	12.3	7.5	5.9	7.0	7.5	5.9	2.1	— 0.5	0.5	2.1	13.4	—
	24	9.6	7.0	8.6	5.9	7.5	5.9	5.9	3.2	2.7	0.0	P N	16.1	—
	25	15.0	16.1	11.8	13.4	10.7	12.8	10.7	4.8	2.1	1.1	4.3	1.6	—
	26	15.5	16.1	16.1	12.3	25.2	26.8	19.8	9.1	2.1	2.7	4.3	4.3	—
	27	13.4	11.8	9.6	8.6	8.6	10.2	13.9	9.1	2.1	3.8	5.4	— 20.3	—
	28	—	—	—	—	—	—	—	10.7	0.5	— 0.5	1.6	3.2	—
	29	14.5	11.2	10.7	9.6	13.4	15.5	13.9	1.1	— 1.6	1.1	1.6	2.1	—
	30	34.8	25.7	26.8	17.7	18.7	19.8	21.4	8.6	3.8	2.1	2.1	2.1	—
Hourly Means.		11.6	9.7	9.1	8.2	8.8	8.7	8.5	2.1	1.0	0.8	0.9	0.7	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	2.1	— 1.1	2.1	— 0.5	— 2.1	1.1	2.7	15.0	19.3	18.2	14.5	11.8	5.4
	2	— 3.2	— 3.2	1.1	— 5.4	— 1.1	0.5	3.8	7.5	9.1	12.3	11.8	15.5	4.4
	3	— 0.5	— 1.1	— 4.3	2.1	2.1	3.2	4.8	13.4	18.7	20.9	11.2	12.8	5.2
	4	— 2.7	— 5.4	— 2.1	— 2.7	2.1	4.3	5.9	7.0	16.1	18.2	12.3	11.8	4.9
	5	— 5.9	— 4.3	0.5	— 2.1	0.0	0.0	20.9	11.2	3.8	2.7	4.8	4.8	2.8
	6	— 3.8	— 3.8	— 1.6	— 1.1	— 4.3	— 2.1	5.4	7.0	5.9	3.8	4.3	3.8	2.0
	7	— 1.6	— 4.8	— 2.7	0.0	0.5	3.2	10.7	3.8	2.1	4.3	4.3	3.2	2.0
	8	— 5.4	N	— 3.8	0.0	4.3	2.1	5.4	4.3	4.3	4.3	4.3	4.3	2.5
	9	2.7	1.6	3.2	3.2	7.0	2.7	7.0	17.1	18.2	9.1	5.9	4.3	4.9
	10	1.6	2.1	— 13.4	P N	— 17.7	— 5.4	12.8	11.2	13.9	12.8	15.0	7.0	3.8
	11	1.6	1.6	0.0	1.6	4.8	8.0	16.1	P N	P N	P N	— 5.4	2.1	4.1
	12	3.2	3.8	4.3	3.8	5.4	6.4	8.0	10.2	13.4	10.2	11.8	15.5	9.0
	13	2.7	0.5	3.2	2.7	2.1	3.2	3.8	4.3	5.9	5.4	5.9	6.4	4.1
	14	— 4.8	P N	16.1	4.8	4.8	3.2	12.3	14.5	15.0	15.0	12.3	18.7	7.4
	15	2.7	3.2	2.1	3.8	5.4	16.1	4.3	5.4	6.4	7.5	8.0	9.1	7.2
	16	2.1	1.1	1.1	0.5	2.7	4.8	7.5	8.6	22.5	18.7	20.9	17.1	6.9
	17	2.7	0.0	2.7	6.4	15.5	8.0	8.0	7.0	8.6	12.3	12.3	12.3	6.9
	18	1.1	1.6	1.6	1.6	4.3	5.4	5.9	16.1	16.1	18.7	16.1	15.0	7.6
	19	— 3.8	— 5.4	— 5.4	— 1.1	4.3	3.8	5.9	11.8	12.8	12.8	15.5	17.1	5.9
	20	0.5	— 1.1	5.4	6.4	2.7	5.4	8.0	9.1	12.3	8.6	8.0	9.1	6.5
	21	— 0.5	0.5	— 0.5	— 6.4	9.6	0.5	7.0	7.0	5.9	5.9	4.8	4.8	4.0
	22	1.6	— 10.7	— 6.4	—	—	—	7.0	13.4	9.1	10.7	13.4	8.6	4.7
	23	2.7	2.1	2.7	2.1	2.7	8.0	12.8	10.2	7.0	5.9	5.9	8.0	6.0
	24	7.0	8.6	— 3.2	5.9	5.4	25.7	3.8	15.0	20.9	21.9	18.2	16.1	9.5
	25	3.2	—	—	—	—	—	—	—	—	16.1	20.3	16.1	10.0
	26	3.8	4.3	5.9	16.1	19.8	37.5	18.7	4.8	9.1	13.4	11.2	14.5	13.1
	27	N	3.8	9.6	—	—	—	—	—	—	—	—	—	6.4
	28	— 0.5	N	32.1	6.4	8.0	3.8	8.0	9.1	10.7	10.7	14.5	16.1	8.4
	29	2.1	3.8	N	N	— 0.5	12.3	7.0	15.5	19.3	22.5	17.7	32.1	10.2
	30	7.0	5.9	— 10.7	P N	P N	P N	14.5	9.6	11.2	12.3	14.5	17.7	12.6
Hourly Means.		0.6	0.1	1.4	2.0	3.4	6.2	8.5	10.0	11.8	12.0	10.8	11.6	6.19

BAROMETRIC PRESSURE.

BAROMETER AT 0°C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER. 1	9.81	9.53	9.03	8.95	9.15	9.46	10.05	10.30	10.43	10.35	10.09	9.44	—
2	9.06	8.73	8.29	8.20	8.02	8.14	9.08	9.63	9.66	9.60	9.14	9.06	—
3	8.53	8.04	7.95	7.80	7.97	8.39	8.81	9.33	9.86	9.89	9.29	8.57	—
4	8.86	8.38	8.19	8.16	8.13	8.93	9.58	9.64	9.78	9.81	9.28	8.78	—
5	8.87	8.36	8.01	7.98	8.09	8.60	9.42	9.65	9.68	9.47	9.08	8.70	—
6	8.76	8.33	7.84	8.00	8.18	8.61	9.19	9.46	9.63	9.42	8.81	8.02	—
7	8.57	7.97	7.74	7.61	7.94	8.49	9.36	9.63	9.86	9.83	9.11	8.82	—
8	8.64	8.09	7.74	7.75	8.01	8.85	9.21	9.51	9.66	9.25	8.85	8.27	—
9	8.36	7.99	7.87	7.88	7.89	8.45	8.85	9.09	9.17	9.04	8.64	8.11	—
10	8.95	8.40	8.18	8.45	8.61	8.71	9.31	9.74	9.82	9.55	9.03	8.54	—
11	9.57	9.13	8.99	8.80	9.26	9.91	10.59	10.93	11.13	10.74	10.49	9.91	—
12	9.89	9.45	9.48	9.59	9.34	9.85	10.45	10.85	11.20	11.09	10.72	10.37	—
13	9.63	9.05	8.50	8.44	8.89	8.99	9.36	9.86	10.25	9.98	9.39	8.68	—
14	8.64	8.34	7.85	8.13	8.45	8.72	9.24	9.81	10.02	9.93	9.40	8.65	—
15	8.24	7.74	7.39	7.80	7.81	8.00	8.90	9.51	9.70	9.84	9.46	8.98	—
16	8.84	8.25	7.74	8.00	8.42	9.07	9.24	9.79	10.10	10.00	9.93	9.64	—
17	9.35	9.01	8.89	8.91	8.91	9.07	9.52	9.76	10.00	10.03	9.64	9.40	—
18	10.00	9.74	9.26	9.21	9.50	9.94	10.80	10.97	11.15	11.05	10.79	10.48	—
19	10.18	9.76	9.44	9.14	9.53	9.94	10.66	10.79	11.03	11.13	11.02	10.39	—
20	9.83	9.59	9.07	8.73	8.75	9.19	9.89	10.32	10.35	10.27	9.87	9.25	—
21	9.40	9.03	8.80	9.04	9.26	9.59	10.30	10.63	10.67	10.56	10.28	9.71	—
22	9.75	9.45	8.78	8.69	9.05	9.41	10.06	10.56	10.35	10.24	9.83	9.35	—
23	9.91	9.31	9.10	8.95	9.40	9.85	10.06	10.40	10.46	10.03	9.50	9.12	—
24	9.25	8.91	8.68	8.60	8.81	9.26	9.59	10.01	9.90	9.72	9.29	8.83	—
25	9.44	9.00	8.60	8.35	8.35	8.46	9.08	9.24	9.33	9.23	9.12	8.68	—
26	8.90	8.72	8.44	8.01	8.49	8.85	9.10	9.84	10.20	10.20	9.89	9.09	—
27	8.91	8.61	8.33	8.43	8.74	9.35	10.03	10.84	10.66	10.08	9.48	9.24	—
28	9.29	8.99	8.58	8.44	8.40	8.84	9.44	9.80	9.88	9.60	9.16	8.64	—
29	9.10	8.50	8.11	8.18	8.23	9.19	9.75	10.76	11.01	10.74	9.84	9.32	—
30	9.06	8.31	8.30	8.10	8.50	8.90	9.18	9.84	9.87	10.06	9.57	9.24	—
31	8.61	8.33	7.88	7.84	8.17	8.44	9.29	9.84	9.84	9.80	9.61	9.26	—
Hourly Means.	9.17	8.74	8.42	8.39	8.59	9.01	9.59	10.01	10.15	10.02	9.60	9.11	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
DECEMBER. 1	8.43	7.81	7.40	7.32	7.57	8.53	8.76	9.17	9.64	10.05	10.21	9.48	9.21
2	8.27	7.45	7.09	6.73	6.82	7.46	7.96	8.54	8.97	9.25	9.48	9.11	8.49
3	8.04	7.69	6.97	7.31	7.54	8.45	8.89	9.65	10.03	10.23	10.17	9.74	8.71
4	7.97	7.18	6.75	6.63	6.79	7.37	8.07	8.78	9.62	9.69	9.83	9.50	8.57
5	7.93	7.18	6.57	6.41	6.67	7.38	8.03	8.42	8.76	9.21	9.44	9.05	8.37
6	7.47	7.07	6.30	6.22	6.35	6.92	7.22	8.12	8.91	9.20	9.07	9.06	8.17
7	7.96	7.77	7.66	8.03	7.82	8.15	8.39	8.98	9.54	9.85	9.77	9.28	8.67
8	7.41	7.01	6.53	6.28	6.72	7.36	7.81	8.46	9.33	9.46	9.35	9.01	8.27
9	7.57	7.05	6.53	6.37	6.60	7.62	8.52	9.19	9.65	9.49	9.80	9.13	8.29
10	8.38	7.85	7.38	7.11	7.52	8.20	9.13	9.63	10.44	10.51	10.29	9.75	8.90
11	8.91	8.59	7.86	7.81	8.55	9.04	9.54	10.50	10.45	10.44	10.43	10.01	9.65
12	9.19	8.36	8.00	8.03	8.39	8.66	9.21	9.69	9.85	10.08	10.19	10.14	9.67
13	7.94	7.15	7.02	7.17	7.83	8.58	8.96	9.74	10.18	10.29	10.00	9.63	8.98
14	7.52	6.92	6.43	6.42	7.12	7.58	8.50	9.19	9.43	9.51	9.03	8.75	8.47
15	8.11	7.61	7.34	7.18	7.67	8.05	8.89	9.40	9.66	9.73	9.63	9.54	8.59
16	9.73	8.77	7.89	8.08	8.43	8.79	9.09	9.58	9.60	9.84	9.66	9.53	9.08
17	8.71	8.02	7.71	7.46	7.76	8.64	9.48	9.85	10.26	10.76	10.83	10.58	9.27
18	9.90	9.28	8.76	8.65	8.87	9.08	9.50	10.24	10.88	11.00	10.75	10.70	10.02
19	9.66	8.93	8.40	8.10	8.17	8.62	9.21	9.57	10.20	10.24	10.39	10.30	9.78
20	8.32	7.79	7.59	7.82	8.11	8.37	8.98	9.48	10.12	9.94	10.08	9.81	9.23
21	8.95	8.25	7.59	7.79	8.32	9.11	9.51	10.05	10.31	10.37	10.21	10.03	9.49
22	8.97	8.22	7.68	7.56	8.28	9.03	9.83	11.01	11.20	11.40	11.28	10.83	9.62
23	8.45	7.97	7.77	7.83	8.24	9.03	9.47	9.98	10.15	10.05	9.79	9.60	9.35
24	8.37	7.68	7.33	7.40	7.97	8.50	8.83	9.68	10.25	10.17	9.90	9.78	9.03
25	7.74	6.87	6.49	6.86	7.35	7.93	8.89	9.19	9.73	9.76	9.64	9.48	8.62
26	8.31	7.69	7.62	7.98	8.29	8.70	9.09	9.45	9.83	9.59	9.44	9.21	8.96
27	8.13	7.42	7.08	7.34	7.69	8.50	9.21	9.64	10.23	10.40	10.30	10.13	9.12
28	8.12	7.31	7.97	7.68	8.09	8.40	8.94	9.95	10.15	10.09	9.65	9.55	8.96
29	8.38	7.41	6.70	6.62	6.94	7.82	8.69	9.51	10.20	10.23	9.96	9.64	8.95
30	8.49	7.68	6.80	7.08	7.62	8.08	8.40	8.89	9.56	9.49	9.60	9.25	8.74
31	8.44	7.87	7.78	7.84	7.97	9.25	10.08	10.65	11.13	11.04	10.70	10.20	9.16
Hourly Means.	8.38	7.74	7.32	7.32	7.68	8.30	8.87	9.49	9.94	10.04	9.96	9.67	8.98

STANDARD THERMOMETER.

DECEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	76.2	76.2	75.8	75.5	75.1	75.1	76.6	79.5	82.7	84.1	80.7	83.5	—
2	76.2	76.0	75.9	75.5	75.1	74.9	76.9	79.7	82.4	82.8	83.5	82.9	—
3	77.5	77.0	76.6	76.0	75.8	75.3	76.6	78.2	81.2	83.1	85.0	86.7	—
4	75.8	75.4	75.1	74.7	74.5	74.5	76.2	79.1	81.6	85.1	86.7	89.0	—
5	78.9	78.3	77.5	77.5	77.5	77.1	77.4	78.2	80.3	83.5	86.1	86.3	—
6	77.3	77.0	76.6	76.2	76.0	76.0	78.3	82.0	85.1	86.1	86.5	87.1	—
7	79.1	78.5	78.2	77.9	77.5	77.3	78.9	81.9	84.3	86.5	87.4	81.8	—
8	75.9	75.4	75.0	74.6	74.3	74.3	75.4	78.3	81.6	85.0	86.4	87.6	—
9	76.4	76.0	75.5	75.6	75.2	75.2	77.2	79.9	83.2	84.4	86.1	87.7	—
10	76.0	75.7	75.4	75.0	74.8	74.8	76.0	77.1	79.5	83.6	86.2	84.6	—
11	76.7	76.7	76.5	76.5	76.5	76.3	76.7	78.6	80.1	82.1	82.0	82.2	—
12	75.0	74.8	74.2	74.2	74.4	74.4	76.0	79.6	81.1	81.3	80.5	77.0	—
13	75.3	75.1	74.6	74.1	73.9	73.9	75.4	78.1	81.5	84.2	85.4	85.6	—
14	75.8	75.3	74.9	74.5	73.8	73.6	74.5	77.1	80.1	82.5	85.0	84.7	—
15	76.0	75.6	74.8	74.4	74.2	74.1	75.4	76.3	78.8	80.8	81.6	79.4	—
16	73.8	73.3	73.0	72.8	72.6	72.6	73.1	75.2	77.6	79.0	81.1	81.8	—
17	75.7	75.3	75.0	75.0	74.8	74.2	75.0	77.9	80.4	81.5	84.0	86.2	—
18	76.7	75.9	75.0	73.8	73.0	72.8	74.3	77.0	80.5	83.7	85.9	87.4	—
19	78.1	77.9	77.3	76.8	76.4	76.0	76.3	77.3	79.2	81.0	83.0	84.1	—
20	77.9	77.3	76.6	76.2	75.7	75.5	76.5	79.9	82.4	85.0	86.7	87.1	—
21	77.2	76.4	76.0	75.6	75.1	75.1	76.0	77.9	80.6	82.7	84.2	85.4	—
22	76.0	75.6	75.4	74.9	74.4	74.3	75.7	78.7	81.9	84.8	87.8	85.0	—
23	73.6	73.6	73.7	73.7	73.7	73.9	74.6	75.8	79.2	81.0	83.9	85.6	—
24	75.1	74.8	74.4	74.0	73.8	73.8	75.0	77.3	80.8	83.6	85.9	85.7	—
25	76.2	76.0	76.1	76.1	76.1	75.6	76.6	78.3	80.0	82.4	83.7	85.7	—
26	76.9	76.7	76.3	76.1	76.0	75.8	78.1	79.1	80.0	80.7	81.7	84.0	—
27	75.5	75.4	75.2	75.7	75.0	75.6	76.4	76.8	79.0	80.9	83.0	83.6	—
28	77.8	77.3	76.8	76.5	76 1	75.7	76.7	78.6	81.3	84.0	84.6	85.1	
29	75.1	75.1	75.0	74.9	74.6	74.4	75.2	75.5	76.5	76.3	77.3	77.7	—
30	75.7	74.9	74.7	74.9	75.0	75.5	76.4	78.1	80.2	81.8	83.8	81.5	—
31	75.3	75.0	75.1	74.6	74.4	74.2	75.0	77.2	80.8	83.2	85.1	85.7	—
Hourly Means.	76.28	75.92	75.55	75.28	75.01	74.90	76.08	78.20	80.77	82.80	84.22	84.44	—

DECEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	86.7	86.4	85.0	85.0	84.5	81.3	77.6	77.8	77.4	77.0	76.6	76.4	79.70
2	82.0	83.2	84.0	83.9	83.0	82.2	81.2	80.3	79.9	79.1	78.5	77.7	79.87
3	83.3	83.3	84.4	83.6	83.0	80.3	79.1	78.5	78.0	77.4	76.6	76.1	79.69
4	88.4	89.4	88.1	86.4	85.2	84.4	82.7	81.7	81.2	81.0	80.2	79.7	81.50
5	85.7	85.4	86.1	85.8	85.3	82.4	79.6	79.4	78.6	78.0	77.9	77.7	80.85
6	88.2	88.2	87.7	86.7	85.8	84.8	83.6	82.4	82.2	81.3	80.6	79.7	82 31
7	82.1	83.8	82.7	79.2	77.8	77.7	77.5	77.1	77.0	76.8	76.6	76.2	79.74
8	87.8	88.2	87.4	86.4	85.3	84.3	83.7	83.0	82.2	79.7	77.7	76.5	81.08
9	87.9	88.8	86.0	88.0	86.2	79.0	76.9	77.0	76.8	76.8	76.6	76.2	80.36
10	81.8	81.2	83.4	84.3	83.3	81.0	79.3	78.1	78.0	77.6	77.3	76.9	79.20
11	83.6	82.8	82.6	82.7	82.3	81.3	79.1	77.9	76.7	76.3	75.8	75.3	79.05
12	77.6	78.3	79.3	79.4	79.4	78.3	77.9	77.4	77.0	76.5	76.5	75.8	77.33
13	86.0	86.2	85.0	82.0	78.8	78.0	77.2	77.2	77.0	76.7	76.0	75.7	78.87
14	86.0	86.3	86.5	85.4	79.8	79.7	78.9	78.5	78.1	77.9	77.1	76.6	79.28
15	78.9	78.9	78.2	77.6	77.1	76.0	75.6	74.7	74.6	74.6	74.3	74.0	76.50
16	75.9	77.1	79.2	79.7	80.2	79.2	78.5	78.0	77.3	76.7	76.7	75.8	76.68
17	88.0	89.6	89.6	88.9	86.6	84.2	82.4	81.1	80.0	78.3	77.6	77.1	80.77
18	87.4	87.3	86.8	84.9	84.6	83.6	82.3	81.7	80.9	79.1	78.8	78.3	80.49
19	85.2	85.5	86.1	84.6	83.8	83.1	81.5	80.7	79.8	79.2	79.0	78.8	80.45
20	87.4	86.9	84.9	84.7	83.7	83.2	81.8	81.0	80.5	79.4	78.6	78.0	81.42
21	85.7	85.0	86.1	85.0	84.4	83.0	82.6	80.8	79.0	77.5	77.0	76.6	80.20
22	81.6	84.5	83.0	83.6	83.1	82.7	79.7	74.0	73.4	73.9	73.9	73.9	78.83
23	86.6	83.6	78.2	78.0	77.8	77.2	77.0	76.7	76.5	76.1	75.8	75.6	77.56
24	82.4	86.0	86.3	79.6	78.8	77.9	77.1	77.3	77.2	76.7	76.1	76.4	78.58
25	86.5	87.2	87.5	84.8	83.0	81.8	80.7	80.0	79.4	78.7	78.0	77.1	80.31
26	84.8	83.7	80.6	77.4	76.5	76.9	76.4	76.2	76.4	76.0	75.7	75.5	78.23
27	86.7	86.1	84.2	83.2	83.6	82.2	81.3	80.8	80.2	79.2	78.5	78.3	79.85
28	85.7	83.9	78.9	77.0	77.1	76.5	76 2	76.0	76.1	75.7	75.6	75.4	78.53
29	78.9	82.0	83.6	83.5	81.4	80.7	79.1	77.5	77.0	76.3	75.8	76.0	77.48
30	80.7	82.8	83.6	82.0	78.7	77.4	77.0	76.7	76.6	76.4	76.0	75.6	78 17
31	87.0	86.2	80.4	79.9	78.8	76.2	75.4	75.6	75.3	75.0	75.2	75.0	78.15
Hourly Means.	84.40	84.77	84.05	83.01	81.90	80.53	79.32	78.55	78.07	77.45	76.99	76.58	79.38

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER. 1	923	931	931	939	939	947	915	803	732	702	775	755	—
2	957	966	957	948	947	947	924	871	779	752	713	788	—
3	932	924	932	957	948	956	948	885	757	747	704	632	—
4	931	931	939	939	947	947	915	809	736	647	627	565	—
5	893	893	916	916	916	924	916	908	857	741	669	663	—
6	932	940	932	931	940	940	877	808	718	682	677	692	—
7	926	926	925	941	941	949	902	829	743	670	642	756	—
8	940	947	939	947	947	947	923	830	757	684	638	612	—
9	873	881	889	889	897	897	859	818	754	702	669	624	—
10	923	931	930	939	956	947	931	907	825	700	650	676	—
11	940	948	957	957	957	957	957	902	857	765	758	816	—
12	930	930	947	947	947	947	923	841	791	814	842	907	—
13	957	956	956	965	965	965	957	807	707	675	621	654	—
14	957	966	956	956	965	973	965	925	797	723	718	703	—
15	898	923	947	956	947	956	948	940	854	790	757	839	
16	956	965	964	964	964	973	964	922	828	793	762	714	—
17	898	914	922	930	939	947	930	861	746	742	662	600	—
18	817	856	879	911	929	902	845	773	689	628	562	545	—
19	893	892	900	891	899	906	899	867	832	806	753	728	—
20	917	925	948	948	948	931	932	833	759	698	646	635	
21	916	923	931	931	947	947	940	901	865	732	688	653	—
22	915	905	914	930	947	938	914	822	742	676	595	690	—
23	965	965	973	973	973	965	973	966	863	806	749	693	
24	966	965	965	965	965	965	956	892	798	734	675	688	—
25	849	856	849	849	841	864	833	837	781	766	706	688	—
26	818	826	841	865	881	889	776	785	773	789	771	694	—
27	931	905	922	864	855	815	825	883	831	775	732	734	—
28	917	932	940	948	931	940	924	846	770	721	708	684	
29	974	974	974	965	965	965	966	914	882	865	852	813	—
30	940	947	947	947	939	931	899	853	797	764	741	769	—
31	948	956	956	947	956	965	947	884	776	747	711	740	
Hourly Means.	920	926	932	934	937	937	916	862	787	737	702	702	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
DECEMBER. 1	621	638	697	710	716	813	924	925	932	948	957	957	839
2	852	789	756	762	774	801	865	895	903	918	926	949	864
3	754	754	722	748	767	796	831	853	860	875	899	915	837
4	621	606	619	643	671	701	765	791	820	857	887	879	783
5	673	718	707	687	704	778	855	847	877	908	917	925	825
6	650	626	655	658	706	737	796	830	837	873	888	910	801
7	859	790	780	886	876	907	900	916	916	924	932	931	865
8	631	638	654	714	725	756	776	817	845	780	820	817	795
9	625	622	693	625	700	830	890	906	906	906	923	931	805
10	806	843	803	756	803	819	918	933	933	941	941	940	865
11	761	774	794	773	786	820	838	852	842	873	898	922	863
12	941	933	902	902	870	877	908	925	932	948	948	957	909
13	636	630	710	763	900	925	925	932	941	940	948	957	850
14	674	643	663	711	910	902	918	926	925	925	924	932	861
15	862	885	933	925	932	948	948	947	947	956	965	956	915
16	856	900	886	871	781	847	861	884	875	891	891	905	884
17	608	546	479	464	512	579	647	676	693	768	789	811	736
18	563	592	572	670	688	705	758	784	805	854	862	893	753
19	691	680	669	676	741	774	791	857	863	886	894	893	820
20	635	652	697	696	699	732	807	843	849	870	901	901	808
21	641	645	612	671	722	766	787	789	846	867	874	882	812
22	837	757	802	705	732	766	758	938	946	938	956	965	837
23	664	740	884	892	867	932	932	924	932	940	948	957	895
24	765	694	689	878	869	892	900	900	907	899	906	874	863
25	619	616	594	670	731	756	774	780	801	822	820	827	772
26	703	761	804	859	906	899	923	923	899	923	923	931	840
27	639	689	750	733	720	758	806	827	841	878	908	908	814
28	680	776	885	916	916	940	957	948	948	957	957	957	879
29	846	744	761	782	806	835	808	844	858	890	915	915	880
30	872	780	748	757	901	891	916	932	924	924	931	940	875
31	697	669.	818	824	869	890	905	931	930	939	939	939	870
Hourly Means.	719	714	733	752	784	818	851	873	882	897	909	915	839

DIRECTION OF THE WIND.

DECEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	S	S	S	S	S	SSW	SSW	S	S
2	C	C	C	C	C	C	C	S	ESE	E	N	NE
3	C	C	NNE	C	C	C	NNE	NNE	C	NNE	NNE	NNE
4	C	C	C	C	C	C	C	C	WSW	SSE	SE	SSE
5	C	C	C	C	C	C	C	C	E	E	ENE	NNE
6	C	C	SW	C	C	C	SW	SW	ESE	SE	ENE	NE
7	C	C	C	C	C	C	NNE	W	SW	SW	WSW	ENE
8	C	C	C	C	C	C	SSW	SSW	S	NNE	NE	N
9	C	C	C	C	C	C	C	C	SSW	W	WSW	NW
10	C	C	C	C	C	C	C	C	ESE	ESE	S	NE
11	C	C	C	C	C	C	C	C	SSE	C	ENE	NNW
12	C	C	C	C	C	C	C	SSE	SSE	SSE	NW	NNE
13	C	C	C	C	C	C	C	C	S	SW	NE	N
14	C	C	C	C	C	C	C	C	SSW	E	SSW	N
15	C	C	C	C	C	C	C	C	SW	SW	NNE	NNW
16	C	C	C	C	C	C	C	W	SW	C	SW	N
17	C	C	C	NW	C	C	C	WNW	NW	WNW	SW	W
18	C	C	C	C	C	WSW	WSW	SW	SW	SW	E	E
19	C	C	C	C	C	C	C	C	WSW	WSW	WSW	S
20	C	C	C	C	C	C	NE	NE	S	S	S	NE
21	C	C	C	C	C	C	C	C	N	NNW	N	N
22	C	C	C	C	SW	C	C	W	W	W	SW	N
23	C	C	C	C	C	C	C	ENE	WNW	SW	W	NW
24	C	C	C	C	C	C	SSW	SSW	W	SW	WNW	NNW
25	W	W	W	W	W	C	C	SW	SW	WSW	W	WNW
26	W	W	W	W	WSW	C	WSW	W	W	W	WNW	WNW
27	C	W	C	W	SW	SW	W	WNW	W	NW	NW	NW
28	C	C	C	C	C	C	C	C	NW	N	NNE	N
29	C	C	C	C	C	C	C	SW	WNW	NW	NW	NW
30	C	SE	C	C	SE	C	SW	W	W	NW	WSW	N
31	C	C	C	C	C	C	C	WSW	WSW	SW	W	WSW

DECEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	N	N	N	N	NE	SE	S	C	C	C	C	C
2	ENE	NE	NE	NE	NNE	C	C	C	C	C	C	C
3	NE	NNE	N	NNW	NNW	W	C	C	C	C	C	C
4	NE	NE	NNE	NNE	NE	NE	C	C	C	C	C	C
5	NNE	NNE	NNE	NNW	NNW	SW	C	C	C	C	C	C
6	NNE	NNE	NE	NNE	NNE	C	C	C	C	C	C	C
7	N	NW	WSW	SSW	SSW	SSW	C	C	C	C	C	C
8	NE	NE	NNE	NNE	N	N	N	C	N	SSW	SSW	SSW
9	NNE	N	N	N	N	SW	SSW	SSE	SSE	C	C	C
10	NE	NE	NNE	NE	E	SE	C	C	C	C	C	C
11	N	N	NNW	NNW	NNW	SW	SW	ESE	SSE	C	C	C
12	C	C	C	C	WSW	SSE	C	C	C	C	C	C
13	N	NNE	NNW	WSW	C	C	C	C	C	SSW	C	C
14	NNE	NNE	NNE	N	SW	C	C	C	C	C	C	C
15	C	NNW	NE	SE	SE	ENE	NNW	W	C	C	C	W
16	WNW	SW	C	WSW	W	WNW	C	C	C	C	C	C
17	W	W	WNW	WNW	W	C	C	C	C	C	C	C
18	WNW	NNE	N	N	N	C	C	C	C	C	C	C
19	NE	ENE	ENE	NE	NE	NE	C	C	C	C	C	C
20	N	NNE	NE	NE	NNE	C	C	C	C	C	C	C
21	NNE	NNE	N	NNE	N	N	N	WSW	WSW	SW	C	C
22	N	N	NNW	N	N	N	SW	S	ENE	ENE	C	C
23	NW	N	NNW	NW	SSW	C	SSW	SSW	C	C	C	C
24	NW	NW	NW	WSW	WSW	WSW	C	C	C	C	C	W
25	NW	NW	W	W	W	W	WNW	W	W	W	WSW	W
26	NW	N	NE	NW	W	C	C	C	C	C	C	C
27	WNW	NW	N	N	NNW	NNW	NNW	C	C	C	C	C
28	NNE	N	W	C	C	C	W	SSW	SSW	SSW	SSW	C
29	WNW	N	N	N	N	SW	SSW	S	SE	SE	SE	C
30	NNE	NE	NE	WNW	NW	W	W	C	W	W	C	C
31	WSW	NW	SW	SW	SW	W	W	W	W	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

DECEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	0.0	0.0	0.8	0.8	0.8	0.8	2.4	1.6	4.8	4.8	1.6	—
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.8	8.0	10.5	—
3	0.0	0.0	1.6	0.0	0.0	0.0	1.6	0.8	0.0	0.8	4.8	9.7	—
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	2.4	4.8	—
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	4.0	4.8	11.3	—
6	0.0	0.0	0.8	0.0	0.0	0.0	1.6	1.6	1.6	3.2	8.9	13.7	—
7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6	2.4	8.0	—
8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	4.8	4.8	—
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	2.4	4.0	—
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	3.2	7.2	—
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.2	3.2	—
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	3.2	2.4	—
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	7.2	8.0	—
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	4.8	—
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	6.4	4.8	—
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	0.0	0.8	3.2	—
17	0.0	0.0	0.0	0.8	0.0	0.0	0.0	1.6	1.6	1.6	4.8	4.8	—
18	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	1.6	3.2	3.2	4.0	—
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6	—
20	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	1.6	2.4	2.4	4.8	—
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	8.9	—
22	0.0	0.0	0.0	0.0	0.8	0.0	0.0	3.2	4.8	5.6	7.2	9.7	—
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.0	4.8	6.4	6.4	—
24	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2	4.8	6.4	8.9	—
25	3.2	3.2	3.2	2.4	1.6	0.0	0.0	3.2	3.2	4.0	5.6	8.9	—
26	2.4	2.4	1.6	1.6	1.6	0.0	1.6	1.6	2.4	2.4	3.2	5.6	—
27	0.0	1.6	0.0	6.4	4.0	3.2	4.0	4.8	4.8	5.6	6.4	7.2	—
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.0	5.6	8.0	—
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4	4.0	3.2	3.2	—
30	0.0	0.8	0.0	0.0	1.6	0.0	1.6	3.2	4.0	6.4	4.8	6.4	—
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	8.0	8.0	8.0	8.0	—
Hourly Means.	0.18	0.26	0.23	0.39	0.34	0.15	0.59	1.39	2.32	2.94	4.60	6.40	—

DECEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.0	8.0	5.6	4.8	4.0	7.2	0.8	0.0	0.0	0.0	0.0	0.0	2.37
2	7.2	8.9	8.0	3.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.14
3	8.0	6.4	7.2	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.10
4	4.0	6.4	11.3	9.7	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.01
5	12.1	10.5	7.2	4.0	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.71
6	12.1	13.7	8.0	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.12
7	3.2	2.4	4.8	4.8	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.43
8	8.0	8.0	8.9	9.7	6.4	2.4	0.8	0.0	1.6	4.8	1.6	1.6	2.78
9	9.7	8.9	1.6	1.6	2.4	4.8	1.6	0.8	0.8	0.0	0.0	0.0	1.74
10	6.4	1.6	4.0	6.4	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.53
11	3.2	5.6	4.0	2.4	0.8	0.8	0.8	4.8	3.2	0.0	0.0	0.0	1.37
12	0.0	0.0	0.0	0.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.50
13	9.7	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.70
14	8.0	11.3	9.7	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.08
15	0.0	0.8	3.2	2.4	2.4	1.6	2.4	1.6	0.0	0.0	0.0	0.8	1.20
16	5.6	1.6	0.0	0.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.70
17	4.8	8.0	8.0	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.90
18	2.4	4.8	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40
19	2.4	4.0	4.8	4.8	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.03
20	5.6	12.1	12.1	9.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.48
21	8.0	8.0	8.9	10.5	8.0	2.4	1.6	2.4	2.4	1.6	0.0	0.0	2.85
22	6.4	8.9	8.9	6.4	4.8	2.4	8.0	9.7	2.4	1.6	0.0	0.0	3.78
23	6.4	10.5	8.0	3.2	2.4	0.0	1.6	0.8	0.0	0.0	0.0	0.0	2.30
24	11.3	11.3	12.9	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	4.0	3.12
25	9.7	9.7	9.7	8.0	4.8	2.4	4.8	2.4	1.6	4.0	4.8	3.2	4.32
26	6.4	5.6	8.0	9.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.40
27	8.9	8.0	8.0	8.9	8.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0	3.98
28	12.9	11.3	4.8	0.0	0.0	0.0	0.8	1.6	0.8	1.6	1.6	0.0	2.31
29	4.8	4.8	4.8	6.4	6.4	2.4	2.4	0.8	3.2	1.6	1.6	0.0	2.47
30	4.8	4.8	4.8	4.0	1.6	1.6	0.8	0.0	0.8	0.8	0.0	0.0	2.20
31	8.0	9.7	8.0	4.0	4.0	6.4	1.6	0.8	0.8	0.0	0.0	0.0	3.24
Hourly Means.	6.71	7.16	6.50	5.18	3.23	1.52	0.95	0.83	0.57	0.54	0.31	0.31	2.23

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER.	1	10	10	7	5	4	5	1	5	6	10	10	8	—
	2	2	5	3	3	4	9	8	6	6	9	9	10	—
	3	4	5	10	6	3	3	7	6	6	7	6	6	—
	4	3	2	1	3	7	6	4	3	4	5	7	9	—
	5	5	4	3	3	6	8	10	10	9	9	6	7	—
	6	3	2	2	2	4	5	1	0	0	6	6	7	—
	7	1	1	3	1	2	4	2	2	8	10	9	10	—
	8	2	3	3	2	2	2	7	6	6	5	6	7	—
	9	4	1	3	6	4	2	3	3	3	6	7	7	—
	10	4	6	5	3	6	5	9	7	7	6	8	10	—
	11	10	10	10	10	10	10	9	7	10	10	9	9	—
	12	6	4	4	5	6	9	6	7	9	9	10	10	—
	13	5	2	1	3	5	5	3	2	2	4	3	2	—
	14	9	4	2	2	2	2	3	1	0	3	5	6	—
	15	7	4	3	2	3	2	8	9	10	10	10	10	—
	16	10	10	9	10	10	10	10	7	9	9	7	9	—
	17	9	9	10	10	10	6	8	6	7	9	7	4	—
	18	6	3	2	2	2	0	1	1	2	2	3	9	—
	19	7	10	10	9	9	4	2	4	9	9	9	9	—
	20	6	6	6	6	7	3	3	1	3	3	4	6	—
	21	3	3	4	4	4	6	6	6	7	6	8	7	—
	22	4	3	5	4	3	7	7	4	3	4	4	7	—
	23	10	10	10	9	9	9	10	9	9	7	6	6	—
	24	6	4	4	1	1	3	2	2	3	6	7	9	—
	25	10	10	10	10	10	6	5	6	6	7	7	8	—
	26	10	10	10	10	9	10	2	9	10	10	9	7	—
	27	8	7	5	9	10	9	10	10	7	7	9	9	—
	28	5	3	3	4	5	4	7	6	6	7	6	5	—
	29	8	9	7	5	1	2	5	10	10	10	10	9	—
	30	9	6	7	9	10	10	5	2	5	7	8	10	—
	31	5	5	8	6	8	7	4	2	1	6	1	7	—
Hourly Means.		6.2	5.5	5.5	5.3	5.7	5.6	5.4	5.1	5.9	7.0	7.0	7.7	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
DECEMBER.	1	7	7	8	8	6	10	10	7	6	6	5	4	6.9
	2	10	9	6	9	10	5	3	4	5	3	3	2	6.0
	3	9	9	5	9	9	10	10	10	7	5	4	6	6.8
	4	4	6	8	7	7	3	3	4	7	4	5	9	5.0
	5	8	4	2	1	6	4	3	1	1	2	6	2	5.0
	6	2	2	1	1	1	2	2	7	4	3	2	1	2.8
	7	7	10	10	10	10	10	9	10	6	7	7	3	6.3
	8	4	6	4	3	4	4	8	6	10	10	9	9	5.3
	9	4	5	8	7	10	10	10	10	10	10	10	9	6.3
	10	10	9	6	8	10	10	9	3	6	5	4	4	6.7
	11	10	10	8	9	9	10	5	8	8	7	4	3	8.5
	12	7	8	10	10	10	7	10	10	8	9	9	4	7.8
	13	4	3	9	10	10	10	10	10	10	10	10	10	6.0
	14	3	4	5	8	9	8	10	10	10	10	9	9	5.6
	15	10	10	10	10	10	10	10	10	10	10	9	9	8.2
	16	10	10	10	10	10	10	10	8	6	5	4	5	8.7
	17	4	2	1	1	0	2	9	9	5	8	9	9	6.4
	18	8	8	9	9	8	5	6	4	7	7	7	7	4.9
	19	8	8	8	9	9	9	5	5	8	5	9	7	7.5
	20	7	7	9	8	6	4	6	8	7	6	5	4	5.5
	21	8	7	7	7	6	8	9	10	8	5	4	1	6.0
	22	10	6	8	9	9	6	10	10	10	10	10	10	6.8
	23	8	10	10	10	10	10	9	9	9	9	9	7	8.9
	24	8	7	8	10	10	9	10	10	10	10	8	10	6.6
	25	8	8	8	10	9	9	9	8	8	9	9	9	8.3
	26	10	9	10	10	10	10	9	9	9	8	6	6	8.8
	27	6	6	7	8	5	8	9	9	7	3	9	9	7.8
	28	6	8	10	10	10	10	10	10	10	10	10	10	7.3
	29	9	8	8	9	10	10	8	10	10	10	10	9	8.2
	30	10	9	7	10	10	10	9	10	10	8	9	8	8.3
	31	7	10	10	10	10	10	10	10	10	8	7	6	7.0
Hourly Means.		7.3	7.3	7.4	8.1	8.2	7.8	8.1	8.0	7.8	7.2	7.1	6.5	6.78

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER. 1	12.8	8.7	8.3	13.3	8.3	5.5	7.8	0.9	1.4	1.4	N	N	—
2	17.8	15.5	13.7	8.7	9.2	13.3	18.8	10.1	1.8	5.1	8.3	N	—
3	7.8	36.7	N	— 2.3	8.7	11.5	12.8	4.6	— 0.5	1.4	1.8	3.7	—
4	15.1	10.1	9.6	10.1	8.3	9.2	6.9	— 0.5	2.3	0.9	2.3	1.8	—
5	5.5	6.9	10.1	6.0	6.4	11.0	29.8	5.1	5.1	— 0.5	— 2.3	— 3.2	—
6	17.4	13.7	8.7	6.4	5.1	8.3	4.6	— 1.4	— 4.6	— 0.5	— 0.5	— 0.9	—
7	13.3	12.8	16.0	6.9	5.1	6.0	6.4	— 0.9	— 0.5	— 0.9	2.3	N	—
8	10.1	9.6	7.3	7.8	5.1	7.3	17.4	0.0	— 3.2	— 3.2	— 1.4	0.9	—
9	4.6	5.1	5.5	5.1	4.1	5.1	6.0	3.7	2.3	2.3	1.8	1.8	—
10	7.3	7.8	8.7	10.1	9.2	8.7	7.8	5.1	0.0	— 2.3	— 0.5	P N	—
11	38.1	— 9.2	— 22.9	5.5	5.5	3.2	5.5	8.3	— 0.9	3.2	1.8	3.7	—
12	16.4	17.8	9.6	6.9	6.4	4.6	8.3	3.2	4.6	3.7	— 4.6	P N	—
13	14.6	14.6	13.7	16.9	13.3	12.4	15.1	4.6	3.7	— 0.0	2.3	3.2	—
14	9.6	9.2	12.8	11.9	14.6	12.4	13.3	2.3	— 0.9	— 0.5	0.5	1.4	—
15	6.0	5.5	6.4	6.9	6.9	7.3	11.0	4.6	2.3	5.1	10.5	6.9	—
16	8.3	7.3	6.9	7.3	7.8	7.8	16.4	6.9	2.7	0.5	— 1.4	— 0.9	—
17	5.1	5.5	4.1	3.2	4.1	9.2	8.7	4.6	2.7	3.2	1.4	1.8	—
18	7.3	7.8	6.0	5.5	8.3	7.3	11.0	6.0	4.6	4.1	3.7	2.7	—
19	14.6	13.3	13.7	11.0	7.3	9.2	9.6	4.6	3.7	4.1	3.7	3.2	—
20	9.2	11.0	16.4	14.6	17.4	20.1	10.5	0.5	0.9	— 1.4	0.9	2.3	—
21	16.0	19.2	14.6	14.6	11.0	11.0	12.4	7.8	6.9	2.3	1.4	— 5.5	—
22	16.4	17.4	12.4	11.0	11.9	11.0	22.0	7.8	3.7	2.7	1.4	4.1	—
23	9.6	14.2	16.4	12.4	13.7	11.5	16.0	11.5	5.5	4.6	4.1	4.1	—
24	19.2	23.8	16.9	20.6	14.6	15.1	16.4	4.6	2.3	3.2	3.7	3.7	—
25	4.6	4.6	4.1	4.1	4.6	6.4	7.3	6.0	5.1	4.6	4.6	4.6	—
26	2.7	4.1	5.1	4.6	4.6	4.6	6.4	4.6	4.6	3.7	3.2	3.2	—
27	6.0	5.1	5.5	5.1	3.7	4.1	4.6	2.3	2.3	2.7	3.2	3.2	—
28	12.8	11.9	14.6	10.5	8.7	8.3	10.1	7.3	2.3	3.2	2.7	2.7	—
29	9.6	11.9	7.3	11.5	10.5	15.5	16.0	P N	P N	N	4.1	4.1	—
30	9.6	9.6	8.7	6.9	6.4	5.1	6.9	4.4	4.1	4.1	3.2	P N	—
31	12.8	11.9	10.1	10.5	13.7	17.4	14.6	5.5	1.4	1.4	2.3	2.3	—
Hourly Means.	11.6	11.1	9.0	8.8	8.5	9.3	11.6	4.5	2.2	1.9	2.2	2.2	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
DECEMBER. 1	— 0.5	5.5	0.0	0.0	8.3	P N	P N	8.3	16.9	12.8	12.4	13.7	7.3
2	33.0	3.2	4.6	5.5	7.8	11.5	11.5	10.5	2.3	11.0	17.4	22.0	11.4
3	1.4	3.2	4.6	3.7	8.7	5.5	38.1	5.5	12.4	15.5	17.4	14.6	9.4
4	3.2	2.7	1.8	2.7	3.2	4.1	4.6	11.9	23.8	7.8	12.8	8.3	6.8
5	15.1	1.4	2.3	N	N	27.0	6.9	13.3	11.9	16.0	15.1	13.3	9.2
6	— 0.5	— 0.5	— 0.9	— 0.5	1.8	N	3.7	13.7	12.4	18.3	16.4	13.7	5.8
7	43.6	— 22.9	41.3	P N	6.0	7.3	8.7	17.8	12.4	9.6	11.0	11.9	9.7
8	1.8	1.8	1.8	1.4	1.8	3.7	7.8	23.8	21.0	— 2.7	11.5	4.6	5.7
9	— 2.3	— 2.7	2.3	2.3	2.3	P N	P N	19.7	9.6	8.7	5.1	7.3	4.5
10	P N	— 2.3	2.7	10.1	12.4	— 8.7	P N	19.2	16.4	13.7	12.4	13.7	7.2
11	0.9	3.7	7.3	5.5	10.5	2.3	11.5	16.4	7.8	9.6	15.5	17.4	6.3
12	P N	6.0	3.2	—	—	—	12.8	17.4	25.2	16.0	14.6	— 15.1	8.3
13	3.2	5.1	18.8	27.5	P N	P N	— 6.0	— 5.5	3.7	5.5	6.9	10.5	8.4
14	2.3	3.7	3.2	5.1	N	7.8	6.9	10.1	12.8	8.3	7.3	6.0	7.0
15	N	6.4	N	13.7	9.2	P N	— 16.9	— 6.4	— 1.4	5.1	9.2	7.8	5.1
16	P	1.4	3.7	4.1	3.7	5.1	10.1	9.2	7.8	7.3	5.1	6.0	5.8
17	1.8	1.4	1.4	— 0.5	1.4	1.8	7.3	7.3	8.3	9.2	8.3	9.2	4.6
18	3.7	2.7	4.1	5.5	3.2	7.3	11.5	6.0	6.4	16.4	21.0	16.4	7.4
19	3.2	4.1	4.6	5.5	6.9	8.3	10.5	17.8	21.0	21.5	16.0	15.5	9.7
20	2.3	2.7	0.5	1.8	4.6	9.6	15.1	0.5	10.5	13.3	21.0	18.3	8.4
21	2.3	3.7	4.1	3.7	6.9	14.2	23.8	P N	— 3.2	6.0	7.8	13.7	8.5
22	6.4	2.3	3.7	4.6	8.7	24.7	25.2	P N	P N	P N	P N	3.7	10.1
23	5.1	P N	P N	P N	0.9	6.0	11.0	11.5	13.3	16.9	10.1	13.7	10.1
24	6.0	2.3	11.9	P N	P N	4.6	10.1	11.5	7.3	9.6	8.3	5.5	10.1
25	4.1	3.2	P N	4.1	4.6	4.6	6.0	5.1	5.1	3.7	3.7	3.2	4.7
26	3.2	2.3	P N	P N	— 14.6	7.3	8.3	14.6	7.8	11.9	11.5	10.5	5.2
27	3.2	2.7	2.7	2.3	2.7	4.1	6.4	6.4	9.6	10.5	14.6	11.5	5.2
28	3.7	P N	P N	P N	P N	P N	9.2	0.9	1.8	7.3	7.8	10.5	7.2
29	5.1	3.7	4.6	3.7	0.9	— 6.9	21.5	18.3	11.5	7.3	8.7	8.3	8.4
30	6.0	1.4	3.7	7.3	P N	3.2	6.4	11.0	11.9	11.5	11.9	9.6	6.9
31	6.9	18.3	N	P N	P N	10.5	4.6	6.9	6.0	7.3	7.8	5.5	8.5
Hourly Means.	6.1	2.3	5.5	5.2	4.4	6.9	9.9	10.4	10.4	10.5	11.6	10.0	7.34

RAIN IN MILLIMETRES.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
January	1	—	—	—	0.5	1.1	1.3	0.5	8.2	5.3	0.4	—	—	—
»	2	—	—	0.1	0.2	17.4	2.3	0.1	0.1	—	—	—	—	—
»	3	0.4	0.3	0.2	0.1	—	—	—	—	0.3	—	—	—	—
»	4	—	—	—	—	—	0.5	0.1	0.3	0.1	—	—	1.0	—
»	5	—	6.2	1.3	0.3	—	—	—	—	—	—	—	—	—
»	6	—	—	—	1.1	0.1	0.1	—	2.5	1.1	0.1	—	—	—
»	7	—	—	—	—	0.2	—	—	—	—	—	—	—	—
»	8	—	—	—	—	—	—	—	—	—	—	—	—	—
»	9	—	0.4	0.3	0.3	0.1	—	—	—	—	—	—	—	—
»	10	—	—	—	—	—	—	—	—	—	—	—	—	—
»	12	—	—	—	—	—	—	—	—	—	—	6.2	0.1	—
»	13	—	—	—	—	—	—	1.0	1.8	0.1	—	—	—	—
»	14	—	—	—	—	—	—	—	—	—	—	—	—	—
»	15	—	—	—	1.5	4.8	0.1	0.1	—	2.7	8.4	0.1	—	—
»	16	0.1	—	—	—	—	—	—	0.1	0.2	0.2	0.3	—	—
»	17	1.9	0.2	—	—	—	—	—	2.5	0.1	—	—	—	—
»	18	—	—	—	—	—	—	—	—	—	—	—	—	—
»	19	—	—	—	—	—	—	—	—	—	—	—	1.6	—
»	20	—	—	—	—	—	—	0.2	0.1	—	1.7	5.2	7.7	—
»	21	—	—	—	—	—	5.0	0.7	0.1	—	—	—	—	—
»	22	—	0.3	—	—	1.4	5.2	1.4	0.2	0.1	—	—	—	—
»	25	—	—	—	—	—	—	—	—	—	—	—	—	—
»	26	—	—	—	—	—	—	—	0.1	0.8	0.4	—	—	—
»	27	—	—	0.2	—	—	—	—	—	—	—	—	—	—
»	28	0.4	0.1	—	—	—	—	—	5.1	6.6	1.5	0.1	—	—
»	29	0.1	—	—	—	—	—	—	—	—	0.1	0.8	—	—
»	30	—	—	—	—	12.2	11.2	0.2	—	—	—	—	—	—
»	31	0.1	—	—	—	—	—	—	—	—	—	—	—	—
February	1	—	—	—	—	—	—	—	—	—	—	—	0.5	—
»	2	—	—	0.1	0.5	2.8	0.3	0.1	—	—	7.2	1.8	—	—
»	3	0.2	—	—	—	—	—	4.8	0.1	0.9	0.8	1.1	3.7	—
»	5	0.2	2.9	11.9	7.0	0.4	0.1	0.4	—	3.2	3.2	0.1	0.6	—
»	6	—	—	—	—	—	—	—	—	1.9	0.1	—	4.7	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
January	1	—	—	—	—	—	—	8.6	7.0	0.3	0.1	—	—	33.3
»	2	—	—	—	—	—	—	—	—	2.8	0.9	3.0	1.5	28.4
»	3	—	—	—	—	—	—	—	—	—	—	—	—	1.3
»	4	—	—	—	—	—	12.0	0.1	3.7	0.1	—	—	—	17.9
»	5	—	—	—	—	2.3	6.8	0.6	—	—	—	—	—	17.5
»	6	—	—	—	—	—	—	—	—	—	—	—	—	5.0
»	7	—	—	—	—	—	—	—	—	—	—	—	—	0.2
»	8	—	—	—	—	0.6	—	—	3.5	0.2	—	—	—	4.3
»	9	—	5.2	1.6	0.8	—	—	—	—	—	—	—	—	8.7
»	10	—	—	14.3	0.3	0.1	—	—	—	—	—	—	—	14.7
»	12	0.1	—	—	—	—	0.9	3.7	2.6	1.5	0.6	—	—	15.7
»	13	—	—	—	—	—	—	—	—	—	—	—	—	2.9
»	14	3.4	0.1	—	—	—	—	—	—	—	—	—	—	3.5
»	15	—	—	—	—	—	—	—	—	—	—	31.2	3.4	52.3
»	16	—	—	—	—	—	—	—	—	—	—	—	—	0.9
»	17	—	—	—	—	—	—	—	—	—	—	—	—	4.7
»	18	—	—	—	—	3.4	2.1	0.1	—	—	—	—	—	5.6
»	19	0.3	3.4	0.3	—	—	1.7	0.1	0.1	—	—	—	—	7.5
»	20	1.3	0.1	—	—	—	—	—	—	—	—	—	—	16.3
»	21	—	—	—	—	—	—	—	—	—	—	—	—	5.8
»	22	1.1	8.3	0.6	—	—	—	—	—	—	2.3	0.3	0.2	21.4
»	25	—	3.5	0.4	0.3	—	0.3	—	—	—	—	—	—	4.5
»	26	—	—	—	—	—	—	—	1.2	0.1	—	—	—	2.6
»	27	1.1	0.1	—	—	—	—	—	—	2.9	3.0	1.6	1.3	10.2
»	28	—	—	—	—	—	—	—	1.1	13.2	1.0	1.3	0.1	30.8
»	29	—	—	—	—	—	—	—	—	—	—	—	—	1.0
»	30	—	—	—	—	—	—	—	—	3.1	2.9	1.0	0.3	31.2
»	31	—	—	—	—	—	—	—	—	—	—	—	—	0.1
February	1	—	—	—	—	—	—	—	—	—	—	—	—	0.5
»	2	—	—	—	—	—	—	—	—	—	—	—	—	12.8
»	3	2.8	6.2	1.2	0.1	—	—	—	—	—	—	—	—	21.9
»	5	0.3	—	—	—	—	—	—	—	—	—	—	—	30.3
»	6	0.2	—	—	—	—	—	—	—	—	—	—	—	6.9

RAIN IN MILLIMETRES.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
February . 7	—	—	—	—	—	—	—	—	—	—	—	—	—
» 8	0.1	—	—	0.1	0.9	0.5	1.6	0.1	—	—	—	—	—
» 9	—	—	1.1	43.9	12.8	40.3	2.3	0.1	0.2	0.1	—	0.1	—
» 10	—	—	—	13.5	1.1	0.2	—	—	—	—	—	—	—
» 11	1.4	0.2	1.9	0.2	8.9	3.9	1.4	0.3	0.1	0.1	1.1	8.2	—
» 13	3.1	0.1	—	2.3	1.0	0.9	10.8	5.3	35.4	30.7	1.0	0.2	—
» 14	—	—	—	—	—	—	—	8.9	0.2	0.1	—	—	—
» 15	0.5	0.1	0.1	0.1	0.1	—	—	—	—	—	—	—	—
» 17	—	—	—	—	—	—	—	—	—	—	—	—	—
» 19	—	—	—	—	—	—	—	—	—	—	—	—	—
» 21	—	—	—	—	—	—	—	—	—	—	—	—	—
» 24	—	—	—	—	—	—	—	—	—	—	—	—	—
» 25	—	—	—	—	—	—	—	—	—	—	—	—	—
» 27	—	—	—	—	—	—	—	—	—	—	—	—	—
» 28	—	—	—	—	—	—	—	—	—	—	—	—	—
» 29	—	—	—	—	—	—	—	—	—	—	—	—	—
March . . 2	—	—	—	—	—	—	—	—	—	—	—	—	—
» 4	—	—	—	—	—	—	—	—	—	—	—	—	—
» 6	—	—	—	—	—	—	—	—	—	—	—	—	—
» 7	—	—	—	—	—	—	—	—	—	—	—	—	—
» 9	—	—	—	—	—	—	—	—	—	—	—	—	—
» 12	—	—	—	—	—	—	—	—	—	—	—	—	—
» 17	—	—	0.3	0.8	0.4	—	—	—	—	—	—	—	—
» 23	—	—	—	—	—	—	—	—	—	—	3.9	0.1	—
» 24	—	—	—	—	—	—	—	—	—	—	3.0	2.2	—
» 25	—	—	—	—	—	—	—	—	—	—	—	—	—
» 27	—	—	—	—	—	—	—	—	—	—	—	—	—
» 28	0.1	0.1	—	—	—	—	—	—	—	—	—	—	—
» 29	0.1	0.1	—	—	—	—	—	—	—	—	—	—	—
» 30	—	—	—	—	—	0.3	0.1	—	—	—	—	—	—
April . . 1	—	—	—	—	—	—	—	—	—	—	—	—	—
» 3	—	—	—	—	—	—	—	—	—	—	—	—	

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
February . 7	—	—	—	—	—	—	—	—	—	—	—	0.3	0.3
» 8	—	—	—	—	—	—	—	—	—	—	—	—	3.3
» 9	—	—	—	—	—	—	—	—	—	—	—	—	100.9
» 10	—	—	—	—	—	—	—	—	—	—	—	7.1	21.9
» 11	0.6	0.1	—	—	—	—	—	—	—	—	—	—	28.4
» 13	1.4	0.1	—	—	—	—	—	—	—	—	—	—	92.3
» 14	—	—	—	—	—	—	—	—	—	2.8	0.4	2.8	15.2
» 15	—	—	—	—	—	—	—	—	—	—	—	—	0.9
» 17	—	—	—	—	—	—	—	0.4	0.1	—	—	—	0.5
» 19	—	—	—	—	—	—	—	10.9	3.4	0.2	—	—	14.5
» 21	—	0.1	0.2	4.1	6.9	2.9	0.9	0.1	0.1	—	—	—	15.3
» 24	7.4	0.4	20.1	0.3	0.1	—	—	—	—	—	—	—	28.3
» 25	—	—	—	—	1.5	0.7	0.3	0.1	—	—	—	—	2.6
» 27	1.7	0.1	—	—	—	—	—	—	—	—	—	—	1.8
» 28	—	—	—	4.3	4.2	0.6	0.4	1.2	0.1	0.1	—	—	10.9
» 29	—	—	—	—	—	—	—	0.4	0.2	0.1	—	—	0.7
March . . 2	—	—	—	—	—	2.4	0.1	0.1	—	—	—	—	2.6
» 4	—	—	—	—	—	—	—	—	0.6	0.6	0.1	—	1.3
» 6	—	—	—	—	—	—	—	0.6	0.1	—	—	—	0.7
» 7	—	—	2.6	16.0	13.9	0.1	0.3	0.1	—	—	—	—	33.0
» 9	—	—	—	—	—	18.3	0.5	0.1	0.1	—	—	—	19.0
» 12	—	—	—	—	—	—	0.1	—	—	—	—	—	0.1
» 17	—	—	—	—	—	—	—	—	—	—	—	—	1.5
» 23	—	0.5	0.1	—	—	—	—	—	—	—	0.1	—	4.7
» 24	—	0.2	—	—	—	—	—	—	—	—	—	—	5.4
» 25	—	—	—	1.7	18.6	0.3	—	—	—	—	—	—	20.6
» 27	—	—	—	—	—	—	0.1	—	—	—	—	—	0.1
» 28	—	—	—	—	—	—	—	—	—	0.6	2.9	0.2	3.9
» 29	—	—	—	—	—	1.2	1.7	0.4	0.1	0.1	—	—	3.7
» 30	—	—	—	—	—	—	—	—	—	—	—	—	0.4
April . . 1	—	—	—	0.4	15.9	0.3	0.1	—	—	—	—	—	16.7
» 3	—	—	—	—	—	—	13.0	0.2	0.1	—	—	—	13.3

RAIN IN MILLIMETRES.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
April . . 4	—	—	—	—	—	—	—	—	—	—	—	—	—
» 5	—	—	—	—	—	—	—	—	—	—	—	1.1	—
» 12	—	—	—	—	—	—	—	—	—	—	—	—	—
» 13	—	—	—	—	—	—	—	—	—	—	—	—	—
» 14	—	—	—	—	—	—	—	—	—	—	—	—	—
» 15	0.1	—	—	—	—	—	—	—	—	—	—	—	—
» 19	—	—	—	—	—	—	—	—	—	—	—	—	—
» 20	—	—	—	—	—	—	—	—	—	—	—	—	—
» 22	—	—	—	—	—	—	—	—	—	—	—	—	—
» 23	—	—	—	—	—	—	—	—	—	—	—	—	—
» 25	—	—	—	—	—	—	—	—	—	—	—	—	—
» 26	—	—	—	—	—	—	—	—	—	—	—	—	—
» 28	—	—	—	—	—	—	—	—	—	—	—	—	—
» 29	—	—	—	0.7	5.8	0.5	0.1	0.1	0.1	—	—	—	—
May . . 4	—	—	—	—	—	—	—	—	—	—	—	—	—
» 5	—	—	—	—	—	—	—	—	—	—	—	—	—
» 14	—	—	—	—	—	—	—	—	—	—	—	—	—
» 16	—	—	—	—	—	—	—	—	—	—	—	—	—
» 25	—	—	—	—	—	—	—	—	—	—	—	—	—
» 29	—	—	—	—	—	—	5.3	3.4	2.9	1.2	2.3	1.7	—
» 30	—	—	—	—	—	—	—	—	—	—	—	—	—
» 31	—	—	—	—	—	—	—	—	—	—	—	—	—
June . . 3	—	—	—	—	1.9	0.1	—	—	—	—	—	—	—
» 4	0.1	0.1	—	—	—	—	—	—	—	—	—	—	—
» 6	—	—	—	—	—	—	—	—	—	—	—	—	—
» 7	0.2	—	—	—	—	—	—	—	—	—	—	—	—
» 15	—	—	—	—	—	—	—	—	—	—	—	—	—
» 16	0.1	—	—	—	—	—	—	—	—	—	—	—	—
» 20	—	—	—	4.7	0.3	—	—	—	—	—	—	—	—
» 23	—	—	—	0.1	0.2	0.2	—	—	—	—	—	—	—
» 29	—	—	—	—	—	—	—	—	—	—	—	—	—
» 30	1.3	5.0	11.0	0.1	—	—	—	—	—	—	—	—	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
April . . 4	—	—	—	8.8	30.3	0.4	0.3	0.1	—	0.6	0.3	—	40.8
» 5	—	—	—	0.1	—	—	—	—	—	—	—	—	1.2
» 12	—	—	—	—	—	—	—	0.4	0.3	0.1	—	—	0.8
» 13	—	—	—	—	1.0	1.4	1.2	16.3	0.3	0.1	—	—	20.3
» 14	—	—	—	—	11.6	3.3	6.5	2.9	3.0	1.4	0.2	0.1	29.0
» 15	—	—	—	—	—	—	—	—	—	—	—	—	0.1
» 19	—	—	—	—	11.4	0.4	—	—	—	—	—	—	11.8
» 20	—	—	—	0.2	1.8	—	—	—	—	—	—	—	2.0
» 22	—	—	—	—	—	0.2	0.3	0.1	—	—	—	—	0.6
» 23	—	—	2.3	0.6	—	1.9	0.4	0.1	—	—	—	—	5.3
» 25	3.0	3.0	0.3	0.1	—	0.8	2.2	1.5	0.2	0.5	0.2	—	11.8
» 26	—	0.8	1.7	0.3	0.2	8.5	43.8	1.0	0.1	0.1	—	—	56.5
» 28	—	—	—	—	—	3.5	0.1	—	—	—	—	—	3.6
» 29	—	—	—	—	—	0.4	—	—	—	—	—	—	7.7
May . . 4	—	—	4.9	0.6	0.2	0.2	—	—	—	—	—	—	5.9
» 5	—	8.5	2.7	0.1	—	—	—	—	—	—	—	—	11.3
» 14	—	—	—	1.3	4.5	1.2	0.9	0.1	—	—	—	—	8.0
» 16	—	—	—	—	—	—	0.2	—	—	—	—	—	0.2
» 25	2.7	5.5	—	—	—	—	14.8	0.2	—	—	—	—	23.2
» 29	0.4	0.3	0.1	—	—	—	—	—	—	—	—	—	17.6
» 30	—	—	—	—	—	—	—	—	—	20.6	3.3	0.2	24.1
» 31	—	—	—	1.9	0.2	—	—	—	—	—	—	—	2.1
June . . 3	—	—	—	0.1	0.4	—	—	—	—	—	—	—	2.5
» 4	—	—	—	—	—	—	—	—	—	—	—	—	0.2
» 6	—	—	—	—	—	—	—	—	—	—	—	1.1	1.1
» 7	—	—	—	—	—	—	—	—	—	—	—	—	0.2
» 15	—	—	—	—	—	—	—	—	—	14.0	1.4	0.2	15.6
» 16	—	—	—	—	—	—	—	—	—	—	—	—	0.1
» 20	—	—	—	—	—	—	—	—	—	0.1	—	—	5.1
» 23	—	—	—	—	—	—	—	—	—	—	—	—	0.5
» 29	—	—	—	—	—	—	—	—	—	—	—	3.3	3.3
» 30	—	—	—	—	—	—	—	—	—	—	—	—	17.4

RAIN IN MILLIMETRES.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
August. 9	—	—	—	—	—	—	—	—	—	—	—	—	—
» 10	—	—	—	—	—	—	—	—	—	—	—	—	—
» 11	—	—	—	—	0.1	0.2	—	—	—	—	—	—	—
» 14	—	—	—	—	—	—	—	—	—	—	—	—	—
September. 2	—	—	—	—	—	—	—	—	—	—	—	—	—
» 3	1.3	—	—	—	—	—	—	—	—	—	—	—	—
» 7	—	—	—	—	—	—	—	—	—	—	—	—	—
» 13	—	—	—	—	0.4	—	—	—	—	—	—	—	—
» 14	—	—	—	—	—	—	1.9	0.1	—	—	—	—	—
» 24	1.5	6.1	2.3	0.9	0.1	—	—	—	—	—	—	—	—
October . 7	—	—	—	—	—	—	—	—	—	—	—	—	—
» 11	—	—	—	—	—	—	—	—	—	—	—	—	—
» 14	—	—	—	—	—	—	—	—	—	—	—	11.9	—
» 18	—	1.0	—	—	—	—	—	—	—	—	—	—	—
» 19	38.7	25.7	14.4	5.3	0.9	0.6	—	—	—	—	—	—	—
» 29	—	—	—	—	—	—	—	—	—	—	—	—	—
» 30	0.5	—	—	—	—	—	—	—	—	—	—	—	—
November. 9	4.9	2.2	0.1	—	—	—	—	—	—	—	—	—	—
» 11	—	—	—	—	—	—	—	—	—	—	—	—	—
» 14	—	—	—	—	—	—	—	—	—	—	—	0.9	—
» 25	—	—	—	—	—	—	—	—	—	—	—	—	—
» 29	—	—	—	—	—	—	—	—	—	—	—	—	—
December. 1	—	—	—	—	—	—	—	—	—	—	—	—	—
» 3	—	—	—	2.4	0.1	—	—	—	—	—	—	—	—
» 7	—	—	—	—	—	—	—	—	—	—	—	5.4	—
» 9	—	—	—	—	—	—	—	—	—	—	—	—	—
» 10	—	—	—	—	—	—	—	—	—	—	—	—	—
» 11	—	0.1	0.3	0.2	0.1	—	—	—	—	—	—	—	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
August. 9	—	—	—	—	—	—	—	2.9	0.2	0.2	0.1	0.1	3.5
» 10	—	—	—	—	—	—	—	—	—	—	0.2	—	0.2
» 11	—	—	—	—	—	—	—	—	—	—	—	—	0.3
» 14	—	—	—	—	—	—	—	—	—	0.6	0.1	—	0.7
September. 2	—	—	—	—	—	—	—	—	—	—	—	0.4	0.4
» 3	1.5	0.3	1.4	0.1	—	—	—	—	—	—	—	—	4.6
» 7	—	—	—	—	—	4.8	3.1	0.2	0.1	—	—	—	8.2
» 13	—	—	—	—	—	—	—	—	—	—	—	—	0.4
» 14	—	—	—	—	—	—	—	—	—	—	—	—	2.0
» 24	—	0.6	—	—	—	—	—	—	—	—	—	—	11.5
October . 7	—	—	—	—	—	—	30.3	10.6	0.1	—	—	—	41.0
» 11	—	1.1	—	—	—	—	—	—	—	—	—	—	1.1
» 14	5.6	0.3	0.1	—	—	—	—	—	—	—	—	—	17.9
» 18	—	—	—	—	—	—	—	—	—	—	—	—	1.0
» 19	—	—	—	—	—	—	—	—	—	—	—	—	85.6
» 29	—	—	—	—	—	—	—	—	—	—	1.4	0.2	1.6
» 30	—	—	—	—	—	—	—	—	—	—	—	—	0.5
November. 9	—	—	—	—	—	—	—	—	—	—	—	—	7.2
» 11	—	—	—	—	—	—	—	—	28.4	1.6	0.1	—	30.1
» 14	—	3.1	0.3	—	—	—	—	—	—	—	—	—	4.3
» 25	—	—	—	—	8.2	2.5	0.3	—	—	—	—	—	11.0
» 29	—	—	—	9.1	3.7	—	—	—	—	—	—	—	12.8
December. 1	—	—	—	—	—	—	7.5	0.1	—	—	—	—	7.6
» 3	—	—	—	—	—	—	—	—	—	—	—	—	2.5
» 7	1.5	0.1	—	0.3	0.2	—	—	—	—	—	—	—	7.5
» 9	—	—	—	—	—	2.2	6.6	0.1	—	—	—	—	8.9
» 10	—	0.3	—	—	—	—	1.1	—	—	—	—	—	1.4
» 11	—	—	—	—	—	—	—	—	—	—	—	—	0.7

RAIN IN MILLIMETRES.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
December . 12	—	—	—	—	—	—	—	—	—	—	—	4.3	—
» 13	—	—	—	—	—	—	—	—	—	—	—	—	—
» 14	—	—	—	—	—	—	—	—	—	—	—	—	—
» 15	—	—	—	—	—	—	—	—	—	—	—	—	—
» 16	—	—	—	—	—	—	—	—	—	—	—	—	—
» 22	—	—	—	—	—	—	—	—	—	—	—	—	—
» 23	—	—	—	—	—	—	—	—	—	—	—	—	—
» 24	—	—	—	—	—	—	—	—	—	—	—	—	—
» 26	—	—	—	—	—	—	—	—	—	—	—	—	—
» 28	—	—	—	—	—	—	—	—	—	—	—	—	—
» 29	—	—	—	—	—	—	—	—	—	—	0.2	—	—
» 30	—	—	—	—	—	—	—	—	—	—	—	—	—
» 31	—	—	—	—	—	—	—	—	—	—	—	—	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
December . 12	17.6	0.4	—	—	—	—	—	—	—	—	—	—	22.3
» 13	—	—	—	—	—	2.7	0.7	0.3	0.2	—	—	—	3.9
» 14	—	—	—	—	4.9	—	—	—	—	—	—	—	4.9
» 15	—	—	5.1	0.6	0.6	6.3	4.8	1.0	0.5	0.1	—	—	19.0
» 16	10.5	4.4	0.1	—	—	—	—	—	—	—	—	—	15.0
» 22	—	—	—	—	—	—	—	12.9	14.8	1.0	2.7	0.5	31.9
» 23	—	—	0.4	0.7	0.9	—	—	—	—	—	—	—	2.0
» 24	—	—	—	2.6	1.0	0.4	0.1	—	—	—	—	—	4.1
» 26	—	—	—	0.8	5.6	0.1	—	—	—	—	—	—	6.5
» 28	—	—	17.8	4.2	1.8	2.0	0.2	0.1	0.3	0.1	0.1	—	26.6
» 29	—	—	—	—	—	—	—	—	—	—	—	—	0.2
» 30	2.4	—	—	—	2.7	0.1	—	—	—	—	—	—	5.2
» 31	—	—	—	—	1.3	0.8	0.1	—	—	—	—	—	2.2

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

Mean Batavia Time.	8 A. M.	9	10	11	12	1 P. M.	2	3	4
JANUARY.									
1	—	—	35.8	39.4	50.4	40.4	39.9	—	—
2	34.8	34.9	35.0	37.8	37.9	39.0	39.0	39.0	37.9
3	—	43.3	36.9	45.3	41.3	36.4	44.9	42.8	35.6
4	35.4	37.9	38.4	38.4	37.4	39.8	39.6	39.8	37.4
5	38.4	38.1	39.4	45.9	43.9	44.8	48.1	34.7	34.7
6	—	39.6	39.7	38.1	38.8	41.4	39.4	39.4	39.4
7	39.2	40.3	43.4	39.8	40.6	46.9	44.9	40.4	36.9
8	36.9	38.5	42.5	39.2	38.9	46.6	47.8	36.4	33.7
9	33.8	38.4	38.2	39.4	41.9	40.4	—	—	42.1
10	48.9	44.4	52.4	53.8	48.9	37.4	43.3	—	36.5
11	36.5	37.5	51.1	54.5	49.8	44.4	—	36.9	36.9
12	—	38.0	40.7	—	39.8	39.3	39.3	39.3	39.3
13	39.1	39.1	39.2	39.2	39.3	41.5	39.5	39.5	39.5
14	39.4	39.4	40.4	43.4	—	38.4	42.5	39.1	39.0
15	39.2	—	—	41.4	40.0	40.4	40.2	41.4	41.4
16	40.4	—	41.4	41.9	46.6	53.8	40.9	42.3	39.6
17	36.4	36.4	36.4	40.4	50.8	49.3	52.8	47.4	39.4
18	49.7	42.3	42.2	48.1	43.9	45.1	38.5	—	—
19	39.4	40.7	40.1	—	—	—	—	40.0	40.0
20	39.9	—	—	—	—	39.9	40.0	38.6	41.4
21	39.8	38.3	50.9	49.4	45.5	48.3	50.4	48.4	39.9
22	36.9	37.0	37.0	37.0	44.8	—	—	39.4	43.4
23	40.6	50.2	50.9	45.2	47.5	54.8	47.0	44.3	36.4
24	36.4	41.9	51.9	51.9	52.8	50.2	47.4	43.1	44.2
25	40.4	45.3	40.6	43.9	42.9	40.9	—	—	40.7
26	—	—	—	40.7	40.7	40.9	40.9	40.9	40.9
27	40.8	40.7	40.8	44.9	40.8	42.0	43.4	40.5	40.3
28	—	—	40.2	40.3	42.5	42.9	42.6	47.4	40.8
29	40.6	40.3	—	41.9	45.4	40.2	46.6	40.6	42.7
30	42.6	42.8	42.9	50.8	47.2	42.5	38.8	42.4	43.5
31	43.4	43.4	52.4	51.4	52.3	53.4	52.4	49.8	45.1
Means.	39.56	40.35	42.25	43.69	44.09	43.49	43.47	41.30	39.61

Mean Batavia Time.	8 A. M.	9	10	11	12	1 P. M.	2	3	4
FEBRUARY.									
1	37.9	38.2	40.9	47.9	—	42.5	41.4	41.4	41.4
2	41.3	41.4	—	43.0	43.5	49.6	48.9	48.1	42.7
3	37.9	—	37.9	—	—	38.8	—	38.2	40.6
4	42.4	42.4	52.6	51.8	51.0	45.3	46.4	43.1	37.9
5	37.9	—	38.5	48.4	49.3	46 3	49.9	40.4	38.9
6	—	—	38.9	—	—	40.4	41.4	42.4	47.4
7	46.3	37.9	39.3	48.4	41.4	49.4	51.6	45.9	42.4
8	42.4	42.4	42.4	45.7	45.5	46.4	45.3	40.8	42.5
9	—	42.4	42.4	42.4	—	42.6	44.7	50.4	41.4
10	40.9	41.0	49.3	51.5	53.4	50.3	45.9	50.9	38.9
11	38.8	38.9	38.9	—	—	38.8	38.8	42.4	—
12	42.5	42.5	51.2	54.8	46.6	51.9	57.4	51.2	45.6
13	—	—	—	38.1	38.1	38.2	47.6	42.5	50.2
14	—	40.4	40.4	40.4	51.6	49.3	49.8	43.9	44.3
15	39.9	45.3	46.9	51.5	50.8	49.4	47.4	43.5	43.3
16	42.9	42.9	—	45.0	45.0	46.1	46.0	46.0	45.9
17	46.0	47.6	42.9	54.5	43.0	53.7	53.0	51.4	39.1
18	42.4	49.9	41.6	43.1	42.4	50.3	54.9	48.3	41.5
19	42.4	47.4	51.4	53.3	40.1	54.7	55.2	51.9	39.4
20	42.9	49.5	48.4	53.7	51.5	52.9	52.2	51.9	43.5
21	42.8	48.7	56.4	39.9	45.9	45.9	—	—	—
22	45.8	49.6	47.3	52.7	49.6	51.9	48.9	48.9	42.9
23	43.1	49.6	46.4	48.2	47.9	48.4	50.4	46.0	49.8
24	49.7	50.9	49.8	48.1	51.9	—	—	—	39.9
25	41.5	44.3	46.0	49.9	49.5	50.3	45.6	45.6	45.5
26	45.4	45.4	45.5	45.5	46.6	46.4	46.9	48.4	48.5
27	48.6	48.6	48.4	50.2	42.3	—	52.9	46.0	—
28	44.2	44.2	44.3	53.8	52.0	44.8	46.2	48.3	—
29	48.3	48.5	50.6	52.4	50.4	52.9	52.4	50.5	41.9
Means.	42.97	44.80	45.33	48.62	47.05	47.31	48.50	46.23	43.02

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

Mean Batavia Time.		8 A. M.	9	10	11	12	1 P. M.	2	3	4
MARCH.	1	42.0	42.4	49.4	53.9	50.4	52.9	48.4	47.9	43.4
	2	44.3	43.4	43.4	45.9	48.3	48.6	50.3	49.8	49.8
	3	49.7	49.7	51.8	52.1	42.9	48.2	53.4	50.9	46.2
	4	46.1	48.2	50.3	51.7	51.9	50.9	52.0	45.7	46.2
	5	46.3	48.0	48.1	46.4	48.8	48.6	48.6	48.6	48.6
	6	48.4	48.6	49.2	55.8	48.4	48.9	52.0	48.8	44.3
	7	45.0	46.4	51.6	49.6	54.0	45.6	51.9	—	—
	8	47.9	47.9	51.0	52.8	54.8	46.2	52.6	39.9	37.4
	9	42.5	48.5	50.8	52.4	45.7	52.1	53.6	43.3	38.6
	10	44.4	45.9	50.5	42.4	50.6	41.3	52.4	45.0	45.6
	11	43.5	47.4	50.4	51.4	53.3	—	36.9	40.8	41.3
	12	39.1	46.1	51.5	52.4	44.8	52.9	52.4	51.4	39.4
	13	35.9	38.6	50.1	56.0	56.0	55.8	55.9	55.9	55.9
	14	55.9	55.8	55.9	55.8	56.1	55.8	55.9	55.8	55.8
	15	55.9	55.9	55.9	56.0	56.0	57.4	51.3	52.9	50.6
	16	43.8	48.4	48.5	49.5	52.3	55.6	49.5	48.9	47.4
	17	40.9	37.9	36.8	45.9	42.9	39.4	39.5	41.5	46.4
	18	43.2	48.6	49.3	51.3	54.5	54.6	54.6	51.6	42.8
	19	44.6	48.4	48.9	53.3	53.6	50.2	56.3	50.3	31.6
	20	44.4	48.0	50.4	55.9	47.4	55.2	52.1	42.1	45.9
	21	48.2	49.3	35.8	56.0	49.4	52.0	52.4	50.5	47.4
	22	32.4	44.9	41.4	34.9	55.9	48.9	48.9	39.9	37.4
	23	34.6	41.9	38.4	37.9	—	—	—	33.4	32.9
	24	41.4	47.1	52.2	—	29.6	—	41.4	33.6	33.0
	25	43.9	36.9	45.2	45.9	46.8	54.9	39.4	31.4	—
	26	39.9	48.4	42.9	48.9	53.8	52.0	53.4	51.4	37.3
	27	44.9	49.0	51.4	49.0	44.4	54.4	50.4	50.9	47.3
	28	45.3	49.7	50.3	52.8	54.7	54.6	54.6	50.9	41.6
	29	36.7	39.7	46.4	50.4	47.8	51.6	51.4	33.4	29.4
	30	25.4	29.4	35.2	41.2	33.9	40.0	38.7	44.8	45.9
	31	44.5	47.1	50.9	53.8	51.4	52.4	52.9	51.4	39.8
Means.		43.26	46.05	47.87	50.04	49.35	50.75	50.10	46.09	43.08

Mean Batavia Time.		8 A. M.	9	10	11	12	1 P. M.	2	3	4
APRIL.	1	45.8	49.4	52.4	53.6	55.9	56.3	49.4	46.5	—
	2	28.8	37.9	38.9	43.2	43.7	47.4	43.9	52.7	30.8
	3	30.0	34.9	50.4	50.4	45.9	53.9	46.6	41.9	27.9
	4	29.0	41.4	48.3	52.4	52.4	52.6	52.9	46.1	—
	5	29.4	45.5	52.0	50.1	46.4	—	46.4	34.9	32.0
	6	43.9	47.9	45.6	51.9	51.6	49.8	53.3	48.4	43.4
	7	41.4	45.3	50.3	49.5	51.5	51.0	49.0	38.4	35.6
	8	38.4	39.5	51.2	52.8	53.0	53.8	52.2	50.1	46.3
	9	36.5	49.0	34.3	44.9	50.4	54.4	52.4	50.5	48.3
	10	43.4	49.9	49.3	52.9	48.3	54.3	52.5	50.4	46.0
	11	39.2	47.1	57.6	53.9	54.4	52.9	51.4	49.6	40.5
	12	38.3	48.7	50.3	54.6	54.7	55.9	45.9	46.6	34.9
	13	32.3	40.5	47.4	52.3	51.3	43.4	44.6	44.7	32.6
	14	45.6	48.7	45.4	53.1	47.4	53.7	52.3	49.4	38.4
	15	40.5	42.5	49.3	48.8	46.0	44.5	50.0	47.9	38.4
	16	41.0	48.9	50.9	44.9	52.4	43.4	50.3	38.3	30.3
	17	43.9	48.3	48.6	44.6	54.2	50.4	54.4	49.4	45.9
	18	43.0	48.6	50.1	48.5	54.5	49.9	41.0	33.6	31.6
	19	39.4	39.8	50.4	50.4	51.4	50.9	48.4	41.9	33.8
	20	43.9	48.9	50.8	49.4	49.0	52.9	51.4	49.4	—
	21	28.6	32.6	37.4	40.9	47.3	48.8	51.4	49.0	46.5
	22	49.8	48.6	46.7	52.5	56.0	39.9	52.5	49.4	46.0
	23	39.1	45.0	50.4	54.4	54.6	50.8	41.5	—	23.6
	24	41.7	45.5	50.9	49.4	42.1	51.4	50.5	49.9	42.4
	25	39.8	50.9	54.3	49.9	45.9	—	—	—	28.5
	26	42.0	48.9	50.4	44.6	52.0	51.9	—	—	—
	27	39.0	48.2	49.6	43.8	50.7	33.4	43.9	45.4	42.9
	28	28.5	34.4	39.9	40.4	49.4	43.5	37.2	34.6	36.7
	29	—	31.4	39.0	47.4	41.2	45.3	40.4	39.6	40.2
	30	41.5	46.9	48.3	43.5	55.4	50.1	50.9	49.6	46.0
Means.		38.75	44.50	48.01	48.97	50.30	49.52	48.45	45.49	38.06

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

MAY.

Mean Batavia Time.	7½ A.M.	8	8½	9	9½	10	10½	11	11½	12	½ P.M.	1	1½	2	2½	3	3½	4	4½
1	37.2	41.4	39.9	46.4	48.9	47.8	48.9	48.0	56.9	49.0	50.9	51.9	53.4	52.0	53.4	50.9	50.9	48.4	35.8
2	37.9	43.4	50.3	47.8	50.7	54.5	50.2	48.4	53.5	40.6	51.8	51.9	52.2	51.8	50.9	49.8	49.4	29.9	30.2
3	33.4	41.0	43.2	46.8	49.2	49.2	49.2	52.9	49.4	48.6	47.8	52.0	51.8	50.4	49.1	49.4	47.8	46.8	32.9
4	34.9	36.4	42.8	47.9	49.5	52.2	49.5	50.9	52.5	53.4	45.3	42.5	51.0	52.9	38.0	—	24.2	24.2	24.2
5	35.4	45.3	48.7	51.3	47.5	51.4	51.5	51.5	48.7	53.8	54.8	53.4	40.4	—	—	32.4	32.4	28.9	26.9
6	30.9	34.8	39.8	47.9	41.4	46.4	48.9	47.3	47.4	46.4	47.8	47.3	44.5	45.5	42.4	38.5	37.4	32.4	31.4
7	33.3	44.1	44.8	47.7	48.5	37.2	50.4	52.4	52.8	53.1	54.6	55.5	50.5	41.4	49.1	50.0	47.2	34.9	30.4
8	28.9	34.4	33.0	32.6	35.5	38.2	42.4	49.4	49.5	43.4	43.6	43.5	54.2	49.4	49.2	48.3	45.2	31.9	29.1
9	37.8	42.4	45.9	47.8	49.1	51.9	54.2	35.9	46.2	41.3	41.5	42.9	52.5	53.2	52.0	49.9	49.3	45.9	34.3
10	28.8	33.5	32.0	39.4	43.3	42.3	40.9	42.2	34.0	39.9	34.3	44.9	44.9	43.4	41.9	39.8	39.7	35.9	35.4
11	29.4	42.9	42.5	47.0	43.6	52.7	52.8	50.9	54.8	52.7	53.1	52.4	49.2	53.8	42.1	37.9	43.0	39.9	33.4
12	37.4	43.7	45.4	48.2	48.9	51.2	51.4	52.4	52.4	53.7	53.6	52.0	48.5	53.8	52.4	50.0	34.4	32.1	32.7
13	37.9	42.4	44.0	47.9	48.4	49.9	50.9	51.4	54.2	53.9	55.1	46.1	52.4	37.9	50.5	50.8	49.1	41.0	34.7
14	37.9	42.3	42.4	48.4	46.7	54.4	45.8	54.9	46.0	41.4	54.4	48.6	53.9	53.7	53.0	51.3	35.4	—	—
15	24.0	24.3	24.4	25.0	27.0	31.3	32.0	34.5	36.5	36.5	40.0	39.8	36.4	35.2	34.6	37.9	41.9	35.6	32.6
16	37.3	43.6	42.5	48.4	46.9	46.0	45.4	50.8	47.4	42.9	50.1	52.8	51.4	48.8	47.9	49.3	49.4	46.0	35.5
17	25.8	30.0	41.3	43.2	42.3	50.1	51.8	47.5	43.9	44.0	50.9	49.4	50.0	50.8	48.4	43.9	40.9	35.6	33.0
18	25.0	27.5	29.0	36.3	35.5	50.4	52.4	52.1	48.6	53.9	47.5	45.3	51.8	46.1	46.0	51.1	47.4	43.9	35.6
19	33.2	36.6	38.4	41.3	47.9	50.8	52.4	50.9	51.9	53.2	52.7	54.6	49.5	52.1	50.4	44.8	41.3	41.9	34.4
20	28.9	32.7	40.0	40.5	43.8	49.0	45.5	48.5	50.5	53.4	50.0	49.8	44.4	44.4	42.6	40.4	39.1	37.4	33.9
21	—	43.4	—	48.9	—	48.9	—	52.4	—	52.6	51.3	52.9	53.4	51.9	51.8	50.4	48.3	44.9	33.9
22	37.0	42.4	45.3	47.4	49.4	49.6	50.4	50.1	51.9	52.2	52.3	52.0	52.3	52.0	52.0	50.4	48.8	44.4	34.0
23	36.7	42.8	44.7	48.1	48.9	50.1	50.6	51.1	52.3	47.6	49.2	49.7	51.4	51.8	48.9	48.2	38.1	44.1	35.1
24	33.9	40.4	42.9	47.4	49.9	51.4	51.0	50.5	46.9	47.0	48.4	49.8	50.8	46.1	50.6	46.4	37.7	35.4	33.8
25	39.8	44.5	46.6	49.0	44.9	51.9	47.5	46.9	42.2	45.6	45.0	—	—	34.8	46.9	46.8	42.3	34.8	34.4
26	30.9	40.3	44.6	40.6	42.4	44.1	40.4	42.9	39.8	40.9	42.0	41.5	34.2	—	34.9	43.4	40.4	32.4	30.9
27	36.6	42.7	45.5	47.8	44.7	39.2	39.3	40.5	41.6	41.4	41.4	40.9	39.8	38.2	37.9	37.9	35.9	36.9	35.6
28	28.8	32.9	38.8	47.3	39.8	40.0	36.9	39.7	40.6	41.0	39.9	39.6	39.7	40.0	39.8	37.3	35.6	31.0	31.3
29	—	—	—	—	—	—	—	—	—	—	—	26.3	—	26.9	27.4	28.4	28.9	28.2	27.5
30	36.7	41.3	42.7	45.5	45.5	48.8	49.6	50.4	51.9	52.9	54.4	48.9	38.5	46.9	46.9	43.6	43.8	39.9	33.9
31	34.1	37.9	43.8	46.4	48.0	49.0	51.2	45.5	45.7	53.0	51.7	47.4	34.9	51.5	50.4	34.9	—	—	46.1
Means.	33.44	39.04	41.56	45.01	45.11	47.66	47.70	48.09	47.93	47.64	48.51	47.52	47.51	46.78	46.05	44.47	41.51	37.40	33.10

JUNE.

Mean Batavia Time.	7½ A.M.	8	8½	9	9½	10	10½	11	11½	12	½ P.M.	1	1½	2	2½	3	3½	4	4½
1	38.8	43.3	45.3	48.1	49.1	50.0	50.4	51.1	51.4	51.9	52.6	51.2	51.1	49.4	49.6	49.0	48.4	43.9	31.6
2	25.8	27.8	29.6	36.1	43.3	45.8	39.9	38.9	36.9	49.1	50.3	50.0	52.3	45.4	43.6	49.3	48.6	45.6	32.9
3	26.0	30.5	30.7	34.4	31.6	37.4	34.6	42.8	41.2	44.9	45.0	45.0	49.8	45.4	34.8	43.6	44.5	—	—
4	36.9	42.2	44.4	46.9	49.0	47.9	53.4	53.3	47.4	51.8	54.4	39.2	48.1	49.0	52.9	38.9	44.9	32.9	31.5
5	23.1	38.7	41.0	45.8	47.4	49.5	52.0	52.4	49.9	42.6	42.6	53.8	54.2	49.8	49.6	47.4	42.9	43.4	32.9
6	35.9	41.2	43.6	47.0	47.9	49.2	48.0	44.8	44.5	47.4	44.6	44.4	39.8	34.9	40.7	40.4	39.6	43.4	40.0
7	33.2	39.9	42.6	46.0	47.4	50.4	51.3	53.9	48.0	41.8	48.0	37.2	42.3	41.5	36.3	35.9	44.1	37.1	32.2
8	26.8	39.9	48.1	46.3	46.8	49.2	49.4	51.4	49.6	49.5	49.4	50.2	52.0	51.4	45.6	44.1	44.4	44.2	33.4
9	36.4	41.9	44.5	47.4	47.9	50.3	50.0	52.4	52.7	52.5	52.2	47.5	52.1	50.4	50.7	48.9	48.4	44.3	33.4
10	39.3	40.9	40.8	46.0	47.5	48.8	49.4	50.4	50.1	50.9	51.9	52.3	51.9	51.9	51.4	49.5	47.8	44.5	33.5
11	35.8	40.7	43.9	47.0	48.5	49.6	50.3	51.3	51.0	51.6	51.9	51.9	51.9	51.0	51.0	49.8	46.2	41.7	34.9
12	28.1	31.4	36.9	44.4	46.7	49.1	50.0	50.5	45.6	39.8	47.7	41.6	50.4	48.2	49.1	44.5	46.5	45.6	35.2
13	34.5	40.4	43.5	46.4	46.9	47.9	49.2	50.4	49.8	49.7	50.4	52.8	52.5	51.7	43.4	45.4	47.4	43.7	35.1
14	34.0	39.4	42.6	46.4	48.4	49.3	49.8	49.9	51.4	51.9	52.4	51.6	52.3	51.5	51.9	40.5	45.3	45.4	36.1
15	33.1	39.3	40.0	43.0	44.9	47.6	49.8	49.9	50.8	53.0	52.8	51.8	53.5	52.0	49.6	47.4	46.3	44.5	45.5
16	25.0	28.8	33.2	37.3	40.9	44.8	34.6	47.8	42.7	47.3	48.6	50.9	46.9	50.0	49.8	48.4	46.6	43.7	33.8
17	25.6	33.0	37.6	40.9	47.8	48.5	43.3	43.0	50.4	50.2	49.6	48.9	50.7	42.1	35.7	44.2	45.7	42.5	35.0
18	33.3	39.4	42.1	45.9	46.7	48.2	48.9	49.9	50.7	50.9	51.6	51.4	51.1	50.5	50.4	48.9	47.7	44.5	35.3
19	34.3	40.4	43.1	45.5	47.3	48.9	50.8	49.8	47.7	50.5	42.4	50.4	41.2	41.8	46.1	35.4	34.9	42.9	34.4
20	33.6	39.7	37.1	39.8	46.4	48.6	44.6	47.4	50.6	46.3	44.8	50.3	53.9	41.6	38.5	43.9	42.1	42.3	36.5
21	24.9	28.1	29.9	31.2	38.6	41.2	43.9	37.1	37.3	39.9	41.5	39.6	39.7	37.6	35.4	35.4	33.8	32.8	32.6
22	27.2	30.4	37.1	35.0	44.3	47.8	44.2	50.4	50.4	51.4	48.6	52.1	46.0	41.1	42.8	39.4	41.1	35.1	33.6
23	31.2	35.9	40.3	38.8	44.9	48.4	49.4	49.9	50.1	49.4	43.3	50.0	48.9	50.9	51.2	41.9	48.2	44.6	35.9
24	32.4	39.4	42.0	45.5	46.6	45.5	44.0	47.9	43.2	44.9	44.4	46.9	50.9	51.7	50.8	49.2	49.0	47.4	37.9
25	33.9	40.4	42.9	45.6	49.7	47.0	48.8	45.4	45.9	51.3	48.9	49.9	50.9	52.9	51.4	45.5	47.4	47.5	46.5
26	34.1	39.7	42.3	45.7	46.8	49.0	49.9	52.1	53.3	51.6	50.3	51.0	50.9	50.9	50.6	49.0	38.8	43.6	35.4
27	34.4	40.6	43.4	46.2	47.2	47.4	49.2	50.4	52.1	48.1	49.6	51.0	49.8	52.4	45.5	47.9	48.4	45.4	36.9
28	34.4	39.5	42.6	45.8	46.6	46.9	46.1	49.6	48.9	50.9	52.5	43.4	35.2	49.9	50.8	48.9	47.2	45.6	35.3
29	33.4	39.9	43.1	46.9	47.4	48.9	49.4	50.4	51.1	51.4	49.3	51.3	51.0	50.4	49.9	48.9	47.3	44.2	34.9
30	32.6	39.4	42.4	45.9	46.1	48.6	46.9	50.0	50.9	42.4	41.5	51.4	44.4	35.4	—	40.5	37.4	33.4	33.7
Means.	31.93	37.74	40.55	43.57	46.02	47.72	47.38	48.82	48.19	48.50	48.44	48.63	48.86	47.42	46.52	44.73	44.70	42.61	35.38

BLACK BULB THERMOMETER IN VACUO.

CENTÉSIMAL DEGREES.

JULY.

Mean Batavia Time.	7½ A.M.	8	8½	9	9½	10	10½	11	11½	12	½ P.M.	1	1½	2	2½	3	3½	4	4½
1	28.2	32.5	40.5	44.0	46.1	47.8	48.8	49.8	49.6	50.3	48.6	50.9	50.9	50.9	49.6	44.6	46.0	43.9	34.5
2	32.4	38.9	41.4	45.9	46.9	48.3	49.8	50.4	50.9	51.4	52.6	49.6	45.2	52.5	50.8	48.3	40.8	35.7	33.4
3	32.4	30.9	37.7	46.4	46.1	49.8	47.0	49.2	51.3	50.4	48.5	50.4	50.6	48.4	48.4	48.2	46.6	44.3	34.3
4	26.0	28.5	33.0	42.4	41.2	47.3	47.8	49.5	45.5	52.8	42.1	51.6	50.9	49.4	48.8	47.5	47.1	44.3	35.6
5	32.3	39.9	42.9	45.9	47.9	46.9	48.2	49.3	54.1	50.6	50.1	49.5	48.1	50.9	50.5	48.5	47.0	44.8	41.3
6	32.7	39.4	42.7	45.7	47.0	49.2	50.0	51.0	51.9	51.9	48.4	38.8	39.9	50.0	49.9	47.8	45.0	43.6	33.8
7	28.7	30.9	36.3	43.5	45.6	45.9	49.4	50.1	45.6	53.2	50.6	47.9	45.8	48.5	48.6	43.8	37.8	40.8	35.6
8	28.5	35.7	35.4	37.9	38.9	48.3	48.4	51.3	51.9	51.0	50.6	51.9	50.9	48.9	47.4	49.9	49.2	41.3	34.4
9	24.1	31.9	35.0	40.2	40.7	44.4	45.0	49.8	44.9	44.3	43.3	42.6	47.7	45.7	44.4	39.9	38.9	36.4	34.9
10	24.6	34.9	39.9	43.9	45.6	48.3	49.2	44.0	50.3	43.9	50.8	50.5	50.9	49.3	48.0	46.5	47.4	42.8	34.4
11	29.4	35.9	39.3	43.6	46.4	48.4	49.8	50.5	51.4	52.0	51.6	51.0	51.6	49.4	48.8	48.5	45.8	44.4	41.7
12	27.1	38.4	41.2	44.9	45.7	48.4	49.6	50.0	51.8	48.3	51.3	51.4	51.7	43.0	37.5	46.0	42.3	34.9	35.3
13	32.7	39.2	41.6	44.8	46.8	48.4	46.9	51.5	51.0	45.1	44.2	45.9	46.1	49.1	48.6	44.2	47.3	43.6	34.6
14	30.9	39.4	42.1	44.9	46.3	48.4	49.0	50.4	50.5	50.9	51.4	53.3	53.1	52.9	52.8	50.9	47.5	43.9	35.9
15	32.4	38.4	41.4	45.4	44.3	45.4	49.0	47.0	49.4	50.9	51.8	50.6	50.3	49.1	49.4	44.4	46.4	38.8	34.8
16	25.4	27.6	30.9	30.6	38.4	41.0	37.8	44.2	50.4	53.3	48.6	45.0	41.4	45.6	44.3	44.4	44.4	43.0	34.4
17	25.4	32.0	34.1	43.9	47.2	40.4	44.2	45.3	50.4	44.0	41.3	51.5	51.3	50.4	48.6	47.1	46.3	43.7	35.5
18	32.7	39.4	42.5	46.4	47.1	49.3	50.2	48.7	50.5	45.4	50.9	52.0	51.7	49.4	48.9	47.9	46.5	39.4	31.9
19	31.5	33.4	41.5	44.9	46.4	48.4	49.7	50.4	50.9	51.9	50.5	51.8	52.2	50.4	49.6	46.0	46.4	43.3	34.5
20	26.6	36.6	40.1	44.4	46.7	48.4	49.6	50.4	42.9	49.3	40.3	46.5	35.2	48.8	49.1	47.3	47.4	49.2	34.8
21	29.5	37.9	40.2	34.4	45.6	49.6	51.4	50.1	51.2	51.6	52.1	49.5	50.4	56.9	48.0	46.6	45.6	43.4	34.9
22	30.6	40.3	42.9	45.4	46.4	38.8	47.9	46.4	48.4	51.6	52.1	52.4	51.9	50.2	48.9	47.9	46.0	44.1	35.1
23	33.1	39.9	42.4	45.9	46.4	48.4	49.4	50.8	50.1	39,3	41.0	47.3	49.9	49.5	51.2	43.5	44.4	44.0	37.2
24	32.1	40.4	42.7	45.3	47.0	48.8	50.2	50.8	51.1	51.9	52.1	53.9	45.5	50.3	48.9	47.5	45.6	43.0	36.4
25	30.8	38.9	41.4	44.9	47.1	48.9	50.4	45.6	45.6	53.4	51.5	51.9	50.9	50.4	49.9	47.9	46.8	41.4	34.1
26	31.3	38.6	41.9	45.4	46.5	48.7	49.6	51.5	49.0	53.0	51.4	52.0	51.7	50.4	49.4	47.9	46.0	42.6	37.4
27	30.7	37.7	40.6	44.6	46.0	47.4	49.2	50.9	51.2	52.2	51.4	52.5	51.3	50.3	49.4	48.1	46.7	44.1	38.7
28	25.4	36.9	40.0	43.5	46.4	48.0	49.9	50.9	48.1	39,3	47.3	51.5	50.7	49.9	49.4	47.9	46.2	42.9	35.4
29	34.8	38.8	40.5	45.5	46.5	48.3	48.9	49.8	50.9	50.6	51.1	51.2	51.0	49.6	48.6	46.2	45.0	41.9	36.9
30	28.7	38.1	41.2	44.9	46.1	49.4	50.6	44.4	52.0	52.9	53.2	51.9	51.6	49.5	48.4	46.5	47.4	42.4	34.3
31	29.1	37.6	40.8	44.3	45.6	46.9	50.1	37.4	45.2	52.4	53.0	53.4	52.1	50.1	48.8	47.4	45.4	43.4	36.7
Means.	29.68	36.42	39.81	43.67	45.51	47.29	48.61	48.75	49.61	49.65	49.15	50.01	49.11	49.67	48.55	46.75	45.52	42.43	35.57

AUGUST.

Mean Batavia Time.	7½ A.M.	8	8½	9	9½	10	10½	11	11½	12	½ P.M.	1	1½	2	2½	3	3½	4	4½
1	26.0	35.4	31.5	43.3	45.0	51.3	45.8	43.9	48.1	51.4	51.5	51.0	51.1	50.6	49.6	48.6	47.3	45.0	38.7
2	30.7	37.5	40.9	45.0	46.5	48.4	50.0	49.4	50.4	49.4	50.4	50.5	51.1	49.8	49.0	47.5	46.4	44.4	39.3
3	29.9	37.9	41.7	44.6	46.7	47.9	47.6	51.4	45.9	51.9	50.8	49.3	50.8	49.4	49.1	48.4	46.8	44.3	36.9
4	30.8	37.4	40.5	44.9	45.7	48.0	48.4	48.9	46.5	46.4	45.1	49.5	50.2	50.5	50.3	47.9	46.5	43.9	36.9
5	30.3	38.8	42.8	45.5	46.9	48.0	48.9	47.5	49.3	49.8	48.0	50.4	43.4	48.0	50.4	45.9	45.6	36.0	31.4
6	30.7	38.4	42.1	45.6	46.2	48.2	49.2	48.8	49.4	43.4	50.3	51.1	50.4	48.8	48.0	47.4	46.7	33.8	31.6
7	33.9	40.6	43.0	45.2	46.7	48.9	48.1	46.4	46.1	50.4	42.4	53.9	51.8	51.0	49.4	48.4	47.4	45.3	36.2
8	34.6	40.4	43.2	44.6	42.2	52.3	45.5	52.4	50.9	49.9	49.4	51.4	50.8	50.3	49.4	47.2	46.3	43.3	35.6
9	33.4	41.4	43.9	47.4	49.4	49.4	44.1	46.9	45.5	47.7	51.6	50.3	51.2	51.5	49.7	49.5	49.4	48.7	37.9
10	32.3	32.8	33.6	43.4	43.9	46.7	48.9	45.6	49.0	51.9	47.6	50.9	50.8	49.6	49.2	47.6	45.4	42.7	35.9
11	24.5	28.5	31.1	35.9	45.1	46.4	44.2	49.5	47.3	45.4	44.3	53.0	52.6	46.0	49.6	49.8	49.3	47.0	37.0
12	33.9	40.4	42.6	45.9	47.0	49.9	50.3	51.4	52.8	49.4	52.1	51.8	51.1	49.9	48.8	47.9	46.6	44.4	36.7
13	33.2	40.4	42.8	47.4	47.8	51.9	45.4	37.5	35.6	37.6	51.5	52.4	51.5	50.3	49.8	48.0	46.4	43.4	37.0
14	32.0	40.4	43.0	46.0	48.0	50.5	50.3	52.3	43.7	47.5	52.9	52.4	51.7	50.4	49.5	47.6	46.4	43.3	36.3
15	32.7	39.4	42.6	45.7	47.0	49.0	51.2	52.3	52.9	52.6	52.0	51.6	51.8	51.0	49.7	48.6	47.4	43.8	36.4
16	27.6	39.4	38.0	42.9	47.9	49.4	42.1	44.5	45.6	48.9	39.4	51.2	51.8	47.9	48.9	47.6	45.9	44.1	36.7
17	33.7	40.4	41.0	48.6	39.1	43.0	49.9	50.9	52.2	35.5	35.0	50.6	46.7	50.9	48.9	48.4	46.8	44.1	36.5
18	34.1	41.1	43.2	43.5	48.0	46.8	38.6	48.4	44.6	52.4	52.4	51.8	51.5	50.7	49.9	48.1	46.9	42.5	34.9
19	34.4	40.6	43.9	47.0	48.4	50.0	55.8	49.6	50.4	50.0	53.4	49.0	46.9	50.6	51.1	48.8	47.0	41.5	36.8
20	35.1	41.3	43.9	46.6	46.8	49.6	48.5	52.1	48.3	44.8	51.3	53.6	47.4	50.4	49.6	47.9	46.9	42.9	38.6
21	29.5	36.4	41.0	44.2	47.7	48.6	49.7	52.3	52.0	50.4	52.9	52.3	51.4	50.4	49.4	47.9	46.6	42.7	39.4
22	35.1	39.0	44.9	47.8	40.7	43.9	41.6	50.3	53.4	47.4	51.8	51.3	50.9	50.0	49.4	48.4	46.6	45.4	39.9
23	35.0	41.8	44.2	46.9	47.8	48.9	49.6	51.5	52.8	52.5	53.6	52.9	53.3	50.9	50.4	45.4	41.3	32.4	34.9
24	30.5	40.4	42.6	46.4	48.1	49.8	50.6	51.0	52.0	51.9	52.2	51.9	52.0	50.5	50.3	45.6	48.5	42.4	39.4
25	34.1	40.8	44.1	47.3	49.5	51.1	51.6	52.9	53.0	54.3	52.8	50.9	50.6	49.4	48.9	46.0	44.5	42.2	39.5
26	33.4	38.3	40.5	44.4	46.4	49.8	50.4	52.2	52.4	51.2	44.3	38.2	51.3	48.2	47.9	47.8	47.7	44.2	41.4
27	34.4	40.8	43.2	46.8	48.0	49.8	50.0	52.4	52.8	53.7	54.1	54.2	52.9	51.5	50.8	48.9	46.0	43.3	41.1
28	34.1	40.0	42.9	45.9	47.4	51.5	45.8	45.0	47.8	43.8	35.3	48.9	51.1	50.5	49.3	48.1	46.4	41.7	38.4
29	34.6	42.9	37.2	34.4	40.0	48.4	48.8	41.4	44.0	42.2	41.9	48.9	46.8	50.4	49.4	45.9	40.4	36.8	31.6
30	33.8	42.5	45.8	47.8	46.5	42.1	52.1	49.8	46.1	50.7	49.2	47.9	51.1	50.3	48.4	41.0	43.0	41.2	36.9
31	25.4	40.6	42.7	46.9	47.7	49.4	48.2	52.3	51.0	51.4	52.0	50.6	51.0	49.8	49.6	47.8	45.9	42.6	40.1
Means.	32.05	39.23	41.43	45.09	46.26	48.67	48.10	49.06	48.77	48.57	48.76	50.76	50.55	49.98	49.47	47.55	46.27	42.56	37.09

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

SEPTEMBER.

Mean Batavia Time.	7½ A.M.	8	8½	9	9½	10	10½	11	11½	12	½ P.M.	1	1½	2	2½	3	3½	4	4½
1	34.6	43.8	44.1	46.9	48.4	48.3	51.6	48.8	46.6	52.2	48.1	44.4	50.0	52.8	53.4	41.9	41.5	38.9	40.9
2	35.0	42.4	45.3	48.9	49.5	51.0	51.9	46.4	49.4	55.4	52.9	51.9	52.4	42.0	40.9	46.4	40.9	40.4	38.9
3	25.5	28.4	33.6	40.9	40.3	34.7	39.2	39.3	36.0	35.5	—	28.3	31.4	33.4	—	29.3	28.6	27.4	26.9
4	36.7	41.8	44.1	46.8	47.6	48.5	49.5	48.8	48.6	40.6	50.8	48.6	49.5	50.4	50.6	47.4	45.8	42.4	39.8
5	38.3	42.4	45.0	45.6	48.1	52.1	52.7	47.6	48.7	50.9	52.1	51.2	49.9	46.4	49.1	47.8	46.9	44.4	41.3
6	32.2	37.3	39.1	43.5	46.8	45.9	49.0	50.5	49.8	47.4	48.8	51.5	51.3	44.9	45.3	44.4	42.0	38.0	35.6
7	31.8	40.0	41.6	44.4	45.0	45.9	44.4	49.8	48.8	40.5	38.4	50.3	48.9	49.7	48.0	45.8	43.4	34.3	34.4
8	33.8	39.6	42.8	45.4	46.1	49.0	49.5	49.2	47.9	44.6	50.6	40.3	44.5	48.9	47.5	46.4	46.3	41.0	37.3
9	28.4	32.0	37.9	44.3	43.3	50.5	50.6	46.1	44.3	50.3	52.5	50.8	48.4	49.9	49.4	42.0	38.5	36.2	36.5
10	35.0	38.9	42.0	45.0	47.7	47.8	49.1	50.7	50.8	52.4	53.7	44.9	52.8	42.3	51.0	48.8	43.9	42.5	38.7
11	34.1	39 0	39.9	42.9	48.5	50.0	51.1	50.7	52.3	53.3	53.2	49.4	37.9	50.1	49.4	47.9	44.9	42.4	37.4
12	33.7	38.6	42.1	43.6	45.2	47.9	49.8	50.4	49.9	41.7	46.8	50.4	52.1	43.0	41.4	37.9	37.9	36.0	34.9
13	29.9	33.0	36.6	38.9	45.4	45.0	41.1	42.0	42.5	40.9	41.9	40.6	37.9	40.1	42.4	37.4	38.1	37.5	34.4
14	24.3	26.0	30.0	33.5	—	38.0	38.1	50.4	49.1	49.6	49.5	52.7	48.6	45.9	43.9	34.5	34.3	32.5	32.4
15	26.9	39.0	44.8	43.4	50.4	49.6	51.2	44.9	40.6	40.4	43.1	44.3	50.8	45.1	45.7	47.2	45.1	35.7	33.3
16	36.8	42.8	44.9	48.1	49.2	51.3	50.2	45.3	50.3	50.4	52.9	52.5	52.7	50.4	49.4	41.4	39.6	42.9	37.4
17	36.7	42.4	45.1	46.3	50.0	52.0	50.1	42.5	46.3	52.4	52.3	51.9	51.8	49.6	49.3	47.8	46.4	43.9	37.7
18	37.7	42.9	45.0	49.3	48.9	50.9	52.7	53.4	50.2	52.4	52.7	52.2	51.9	50.6	49.5	47.9	46.9	40.9	35.4
19	36.9	43.0	44.8	47.6	50.1	51.0	53.1	48.6	51.9	52.9	52.6	51.8	51.6	50.3	49.0	46.9	45.4	42.7	37.8
20	33.2	40.4	44.8	47.3	46.4	50.9	51.4	51.9	53.7	44.5	40.6	52.3	51.8	50.4	49.3	46.3	44.4	40.1	35.7
21	33.9	43.8	45.3	49.9	51.9	54.6	50.4	41.5	47.1	49.4	53.1	53.7	52.4	51.3	50.6	49.5	46.6	45.3	37.9
22	38.1	43.9	43.7	47.9	49.9	46.0	47.6	40.5	52.2	52.9	52.7	51.9	51.8	49.9	49.4	47.4	46.2	42.4	35.9
23	38.4	43.2	46.0	48.9	49.9	51.4	52.4	50.0	53.8	53.0	52.9	51.9	51.4	50.5	49.5	47.4	45.9	47.4	36.0
24	25.8	28.8	32.1	40.8	42.1	39.3	38.6	44.2	46.6	47.6	51.9	37.6	—	33.6	37.0	37.4	34.8	39.0	29.1
25	35.9	40.9	43.8	48.0	49.5	39.1	40.0	46.4	51.7	38.4	41.1	37.0	45.2	46.1	46.1	48.8	46.6	41.5	34.9
26	38.7	39.4	43.0	48.9	48.0	47.2	52.2	55.1	53.2	46.4	52.7	52.4	51.5	50.2	50.4	47.4	41.4	42.9	35.6
27	37.4	42.1	45.1	47.4	49.4	50.5	51.8	52.8	52.7	52.4	53.2	51.9	51.8	50.8	50.2	48.8	47.3	42.9	36.3
28	39.4	44.4	46.5	46.2	50.5	51.9	51.8	53.6	53.6	53.9	55.3	52.9	52.5	50.9	51.2	49.3	47.9	43.5	35.5
29	40.8	44.6	47.6	49.3	50.5	52.1	52.7	53.3	54.0	54.9	47.2	50.3	53.2	52 0	51.4	49.2	45.8	38.0	33.7
30	37.5	43.4	46.0	48.7	49.9	51.9	52.1	46.3	41.9	36.3	49.1	52.9	52.6	52.3	42.0	45.1	44.3	35.5	32.3
Means.	34.25	39.61	42.42	45.62	47.88	48.14	48.86	48.03	48.82	47.78	49.75	48.43	49.26	47.46	47.67	44.86	42.92	39.95	35.80

OCTOBER.

Mean Batavia Time.	7½ A. M.	8	8½	9	9½	10	10½	11	11½	12	½ P. M.	1	1½	2	2½	3	3½	4	4½
1	38.9	43.8	46.6	48.1	51.4	51.2	52.0	48.9	53.4	55.8	54.6	55.3	55.5	40.6	40.9	45.3	39.3	34.6	33.3
2	36.4	41.1	44.4	47.5	49.4	47.9	46.8	49.9	48.5	37.4	50.9	38.9	40.3	41.5	49.9	46.9	41.4	39.3	36.2
3	36.7	40.6	43.9	48.6	47.3	51.0	50.6	49.9	50.3	48.9	50.9	48.4	49.5	52.3	47.5	50.4	46.0	37.4	35.3
4	37.7	43.6	45.8	48.3	51.3	52.6	48.9	48.1	47.7	53.5	53.1	55.0	42.0	51.4	50.6	49.6	43.3	41.5	38.5
5	39.6	45.4	47.3	49.1	50.8	52.4	53.4	47.9	48.7	53.2	54.1	41.5	41.2	51.0	50.2	48.9	44.8	38.5	36.3
6	38.2	44.5	45.9	46.4	50.7	53.0	46.4	42.9	45.0	52.4	48.7	51.3	47.4	49.2	50.2	36.2	33.6	32.4	31.8
7	37.9	43.4	40.5	49.4	40.3	49.1	37.9	49.4	42.9	45.3	53.3	53.0	53.2	51.3	50.4	49.8	45.6	34.9	30.9
8	36.4	41.7	44.3	49.0	50.8	46.4	36.1	42.0	50.9	40.9	35.9	46.5	52.9	34.9	33.0	45.4	43.7	35.5	35.4
9	39.6	44.4	46.6	47.8	49.3	50.2	49.7	52.1	46.0	44.8	39.8	47.3	56.9	50.9	50.0	49.5	46.0	34.0	32.0
10	39.0	44.5	46.3	48.4	48.5	50.2	51.4	39.9	38.7	49.6	52.1	51.1	52.0	49.0	50.3	48.6	43.9	31.1	31.2
11	36.0	41.9	44.4	47.8	48.9	50.9	52.1	47.8	47.9	39.4	—	50.3	—	—	27.2	28.7	29.0	28.8	29.1
12	37.4	42.4	44.9	47.4	48.9	49.9	51.9	53.8	50.5	46.8	44.7	52.4	51.8	51.5	50.9	49.4	35.9	32.5	31.5
13	29.0	31.4	36.0	43.9	49.4	43.6	46.4	43.6	41.8	51.5	50.3	50.9	50.4	50.4	51.3	41.4	43.8	35.6	34.9
14	29.7	31.4	34.4	39.2	45.8	44.6	48.5	—	—	36.4	33.9	—	—	28.4	30.7	32.6	39.4	31.4	38.8
15	40.3	44.7	45.9	48.4	50.1	51.0	50.9	51.8	52.9	47.9	48.4	51.5	50.8	50.1	50.3	48.8	44.7	38.5	34.5
16	40.4	44.9	46.9	48.5	50.1	51.4	51.9	54.4	52.1	53.2	52.4	52.3	52.0	49.5	45.6	48.1	45.9	37.8	34.7
17	39.4	41.9	43.9	47.9	49.6	51.8	51.9	53.4	54.1	54.9	52.1	53.3	53.0	51.9	50.9	48.8	44.9	37.4	34.9
18	26.7	43.5	44.9	46.8	47.1	49.5	50.4	54.4	53.9	53.1	52.4	53.4	52.9	52.4	51.3	48.4	48.9	36.5	33.5
19	26.0	30.6	40.5	47.2	52.5	50.0	50.9	51.6	46.1	46.8	48.4	41.0	44.4	50.9	50.6	47.9	45.9	35.8	33.9
20	38.9	44.0	45.9	46.9	49.1	51.0	50.9	52.1	51.4	53.3	46.9	48.6	51.4	50.6	49.7	47.4	45.4	38.7	34.5
21	37.7	43.4	45.9	48.9	49.5	51.4	50.5	53.9	54.4	54.4	54.6	54.4	54.2	51.4	50.4	48.0	45.4	37.5	34.0
22	35.9	42.4	45.4	48.4	49.4	50.9	52.1	48.9	48.9	53.4	52.9	53.4	53.1	52.2	50.9	48.4	46.4	38.4	35.4
23	37.9	43.4	45.6	48.4	46.1	47.9	49.4	48.6	46.9	51.0	50.4	53.4	53.1	52.0	51.4	48.4	45.4	37.9	35.4
24	34.7	41.7	44.3	47.7	49.4	51.0	51.9	52.8	53.9	50.8	54.1	52.9	52.1	50.4	49.0	47.5	45.4	35.8	33.4
25	33.6	39.9	42.1	47.0	46.9	50.8	52.9	43.7	44.9	48.0	49.9	49.6	51.6	50.5	50.3	47.5	44.7	38.3	34.5
26	35.9	42.7	44.7	48.2	49.1	50.9	51.6	52.9	43.9	52.3	52.1	51.8	51.1	48.8	47.2	45.1	43.0	37.0	34.0
27	35.4	40.6	43.4	47.6	49.1	49.8	48.3	50.9	52.9	52.3	53.4	51.5	50.9	47.4	45.9	42.4	40.4	35.2	32.9
28	34.8	39.6	44.9	46.9	51.5	48.4	52.0	52.8	51.3	49.6	48.9	52.8	52.9	51.5	48.5	44.8	41.6	36.4	34.0
29	38.1	43.6	45.6	49.0	50.9	53.3	49.1	48.3	52.8	54.4	53.6	53.4	53.1	47.5	46.6	45.9	38.5	35.8	33.4
30	38.8	44.0	46.1	48.4	49.9	47.1	50.9	52.6	54.1	51.8	52.2	47.3	48.1	47.1	47.3	47.3	45.5	36.9	33.4
31	38.2	44.4	46.4	49.9	50.9	52.9	53.5	48.9	55.3	51.8	52.4	52.8	52.1	52.0	51.0	48.4	46 2	36.4	33.4
Means.	36.30	41.79	44.31	47.65	49.16	50.07	49.72	49.61	49.40	49.51	49.91	50.51	50.68	48.62	47.42	45.99	43.03	35.96	34.03

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

NOVEMBER.

Mean Batavia Time.	7½ A.M.	8	8½	9	9½	10	10½	11	11½	12	½ P.M.	1	1½	2	2½	3	3½	4	4½
1	30.9	39.3	40.6	45.4	46.9	48.4	51.2	52.9	51.7	51.3	49.0	50.3	49.1	48.4	48.2	49.4	47.5	37.4	34.9
2	38.4	45.1	47.4	49.6	51.6	47.8	52.4	54.2	53.9	51.5	53.4	52.4	52.6	51.8	50.7	48.2	46.4	34.9	32.9
3	40.1	45.4	47.4	50.2	50.9	52.9	49.9	48.7	52.4	48.8	52.9	52.5	52.4	51.3	50.6	48.0	45.9	33.9	31.9
4	41.0	45.8	48.2	50.8	51.3	52.8	53.1	54.4	53.1	53.9	53.0	53.1	52.7	51.3	50.6	48.6	46.7	34.5	32.2
5	39.5	44.8	46.5	50.4	51.7	53.4	54.4	46.8	46.9	55.4	47.1	46.4	51.5	50.6	50.1	48.4	46.8	36.1	34.2
6	39.1	44.9	47.4	50.6	45.4	54.5	46.9	42.8	50.2	43.9	51.4	49.1	49.2	50.4	52.3	47.9	44.0	34.0	32.4
7	39.4	45.4	47.3	50.0	51.1	54.0	55.7	46.5	51.9	48.6	52.4	52.9	51.9	50.9	50.4	48.5	45.9	34.6	31.9
8	40.2	42.8	47.4	49.0	50.4	54.3	51.4	55.1	43.9	40.8	50.8	40.8	40.4	35.6	35.0	38.5	44.0	33.3	31.6
9	25.1	28.4	29.0	31.6	34.2	40.1	41.8	40.8	41.0	40.1	41.5	44.3	43.6	43.4	43.6	41.8	44.2	37.4	34.6
10	34.6	35.4	35.4	48.9	51.9	43.7	49.1	53.4	48.9	45.9	46.0	45.4	45.0	46.4	46.9	48.4	41.8	29.6	29.6
11	36.9	44.9	47.6	51.8	51.4	41.3	40.4	35.3	47.2	40.4	42.3	48.3	52.9	49.4	46.7	41.3	43.4	36.4	34.0
12	26.0	28.9	30.3	33.0	33.5	38.8	43.4	42.8	45.4	42.6	39.9	49.8	50.4	43.4	41.9	42.4	40.9	36.5	33.4
13	39.8	38.7	43.3	38.2	45.4	44.2	45.6	51.9	48.9	53.5	54.4	52.8	52.4	51.0	50.0	48.9	47.0	33.7	32.5
14	41.5	42.9	48.6	43.1	51.6	47.9	45.4	—	34.8	46.0	43.2	55.0	38.1	—	24.6	31.6	34.0	32.3	31.3
15	40.1	45.2	47.4	50.5	47.6	47.7	45.9	56.0	47.2	45.6	44.2	52.0	52.4	51.8	50.4	47.7	46.4	33.8	32.4
16	40.7	40.9	42.2	49.9	51.9	51.9	53.9	51.8	50.2	40.9	51.8	53.9	54.6	43.9	50.9	39.4	38.5	35.0	33.8
17	41.4	43.6	45.4	50.5	51.5	46.9	43.9	39.0	41.0	53.9	54.7	48.9	38.4	45.9	41.9	46.4	43.9	34.3	32.3
18	39.5	45.8	47.7	50.1	51.5	50.3	53.6	49.3	43.8	53.5	52.8	52.9	51.9	51.9	51.0	47.2	41.8	34.0	32.9
19	39.9	44.8	47.4	49.6	51.1	50.8	53.1	55.8	48.6	51.9	54.4	49.3	51.4	52.6	49.5	49.5	47.5	36.4	33.9
20	36.2	43.4	45.9	48.9	49.6	49.4	53.4	47.4	47.5	53.0	53.4	52.4	51.6	50.8	50.1	47.8	46.7	32.0	30.4
21	37.9	43.4	46.9	50.3	50.9	50.4	47.1	44.4	51.9	53.4	53.3	52.5	51.7	50.2	48.4	46.6	44.3	32.0	30.3
22	44.2	45.0	47.8	48.9	43.9	46.9	44.1	41.0	37.4	—	39.9	36.9	34.4	38.9	44.6	45.9	37.9	33.8	31.9
23	34.8	41.0	41.7	45.3	51.3	50.9	44.4	50.3	47.6	43.8	47.8	53.6	48.4	43.2	46.6	47.4	42.4	35.0	33.8
24	32.4	44.6	46.0	51.8	45.4	43.3	42.2	39.2	37.9	42.0	41.4	42.1	43.8	43.4	41.2	36.9	36.6	34.3	33.6
25	38.4	42.4	46.4	44.4	49.4	49.9	45.4	48.9	53.8	52.3	54.8	46.4	48.3	51.3	49.4	31.9	28.8	—	—
26	41.4	33.4	40.5	48.4	48.4	53.4	50.4	53.9	51.9	41.5	42.3	52.2	51.9	52.2	44.4	39.9	38.4	34.8	32.9
27	39.9	40.5	43.4	46.9	53.5	55.4	43.4	37.4	38.5	43.1	32.9	30.9	31.4	34.9	34.4	33.5	36.9	34.9	32.9
28	41.5	33.6	33.5	39.0	47.1	50.7	48.7	53.4	50.4	51.0	52.6	52.7	50.8	43.4	35.4	32.5	31.9	31.3	30.3
29	41.2	45.0	48.2	50.3	52.1	51.2	42.9	55.4	43.0	54.0	53.9	53.3	53.4	43.9	41.8	34.5	26.9	—	—
30	39.2	45.4	46.8	47.8	50.9	45.4	46.1	45.3	42.2	41.8	53.1	44.9	44.0	43.7	45.2	39.3	33.9	31.0	28.9
Means.	38.04	41.69	44.12	47.17	48.78	48.95	47.97	48.07	46.77	47.74	48.69	48.93	48.02	47.10	45.56	43.28	41.38	34.19	32.42

DECEMBER.

Mean Batavia Time.	7½ A.M.	8	8½	9	9½	10	10½	11	11½	12	½ P.M.	1	1½	2	2½	3	3½	4	4½
1	37.4	45.5	46.0	47.9	47.9	38.0	34.4	33.9	35.5	43.4	50.4	51.4	53.0	47.4	42.9	39.4	38.4	35.2	34.9
2	37.3	43.9	45.4	48.3	44.3	35.4	35.4	34.9	37.0	36.3	35.5	35.4	36.4	44.4	44.4	42.4	39.8	34.9	35.4
3	38.9	39.9	44.9	49.5	49.4	43.0	40.1	48.0	51.9	50.0	35.4	35.4	37.9	36.6	37.3	48.2	45.2	33.3	31.2
4	42.3	48.2	46.5	46.3	51.8	53.3	53.9	52.7	53.3	55.6	45.0	53.6	53.4	53.5	52.9	49.7	44.8	35.4	33.3
5	25.6	28.4	30.7	38.8	44.4	47.4	50.9	54.9	56.8	48.4	52.4	44.6	49.1	45.0	48.4	47.9	47.2	34.6	34.3
6	42.9	46.9	48.4	53.4	49.4	43.9	41.7	44.5	41.4	47.4	51.8	51.3	52.1	51.8	51.4	48.4	47.9	33.8	34.2
7	41.4	46.6	48.1	44.2	53.4	46.8	58.9	44.4	53.2	—	31.4	42.4	37.4	38.8	34.9	32.4	28.4	—	—
8	34.7	41.6	44.6	50.0	50.0	52.1	51.0	51.8	52.8	53.9	53.4	52.9	53.0	52.3	53.4	48.9	48.1	36.8	34.9
9	35.4	42.3	46.0	45.8	43.2	45.7	49.6	46.3	46.8	43.7	39.5	54.6	55.8	55.6	40.6	39.5	47.1	39.3	36.9
10	28.9	34.2	38.4	44.9	49.3	53.2	54.4	52.3	43.8	37.4	34.4	—	—	33.8	37.1	41.2	44.3	36.7	35.4
11	37.9	35.5	41.9	37.6	44.4	39.8	—	39.3	—	44.4	43.2	41.8	38.9	37.9	38.4	38.9	44.4	32.9	31.4
12	41.4	40.9	41.3	39.9	40.9	31.0	32.4	31.9	—	—	—	29.9	32.4	33.9	33.8	34.4	34.4	30.4	33.4
13	42.1	46.9	49.0	50.2	51.1	46.5	50.4	52.0	52.6	52.1	51.3	50.4	51.0	50.2	45.0	33.6	33.4	28.5	—
14	40.4	45.0	46.9	48.6	49.9	49.5	38.2	52.9	55.1	36.0	50.0	52.0	52.0	51.2	50.9	45.8	49.8	33.6	29.4
15	28.4	30.1	30.1	42.7	42.4	40.4	39.4	39.0	35.6	30.4	29.1	27.8	—	29.6	29.8	—	29.3	—	24.9
16	30.4	34.4	32.4	37.0	35.8	39.9	45.9	44.9	41.8	45.9	48.3	—	—	34.8	34.8	34.1	32.9	30.2	29.4
17	30.9	48.7	52.4	43.3	43.5	40.6	43.3	51.0	49.9	53.4	53.8	53.0	53.0	53.9	53.5	53.9	53.8	34.4	34.5
18	32.4	44.8	47.1	49.1	50.0	51.3	52.9	55.0	49.9	49.3	48.9	49.3	50.8	50.9	46.4	42.2	39.3	35.8	34.9
19	28.4	32.3	34.6	36.6	37.1	40.4	43.4	44.0	43.2	42.5	44.0	46.8	38.9	39.4	45.0	40.7	41.1	33.7	31.8
20	39.9	45.2	46.3	50.0	40.6	55.8	49.9	52.4	50.2	43.4	42.9	44.6	48.1	50.3	49.2	36.6	35.9	36.3	33.8
21	29.9	33.6	36.6	42.8	47.4	47.5	53.9	41.3	44.0	53.9	56.4	47.4	44.7	46.2	51.9	46.0	48.3	37.1	34.9
22	35.4	45.3	47.1	50.4	52.9	53.4	53.1	54.9	50.4	47.7	37.9	—	39.4	50.8	41.3	38.5	35.5	34.8	32.9
23	26.6	32.8	41.5	49.3	42.9	45.3	49.2	50.5	51.6	52.5	52.9	45.4	44.5	35.4	—	—	—	—	—
24	40.9	46.8	48.6	51.5	51.4	48.8	53.0	52.7	43.4	41.6	48.4	42.1	47.4	50.2	48.8	45.5	38.1	—	26.5
25	34.8	37.4	37.7	40.6	42.3	45.4	47.3	47.8	48.3	49.4	48.8	47.9	42.7	53.0	49.9	43.8	46.5	34.4	32.0
26	33.9	32.6	32.9	33.3	33.9	35.4	35.5	39.8	43.4	50.4	48.2	42.3	40.2	44.5	36.8	35.4	31.0	30.4	—
27	31.1	—	38.4	48.9	45.7	46.4	51.0	42.0	43.6	45.9	51.1	53.9	55.0	46.9	44.4	39.9	36.5	34.4	34.4
28	34.9	41.6	38.3	48.4	52.0	46.8	42.1	45.5	41.9	48.5	47.4	54.2	—	42.5	31.5	—	—	—	—
29	30.0	27.2	29.1	36.9	44.4	30.7	31.9	39.5	39.6	34.2	34.1	37.0	39.7	50.7	45.6	43.3	41.8	38.3	34.8
30	39.3	43.9	42.4	48.2	46.6	47.3	55.4	45.5	43.3	—	—	—	40.0	44.1	44.9	43.9	42.9	31.0	27.1
31	39.4	44.3	41.4	50.4	50.9	51.9	52.9	52.3	49.9	53.9	52.4	49.4	48.7	—	31.3	30.3	29.9	—	—
Means.	35.26	40.23	41.77	45.22	46.10	44.93	46.38	46.38	46.56	46.13	45.46	45.81	45.76	45.19	43.12	41.60	40.55	34.25	32.66

UNIVERSITY OF ILLINOIS LIBRARY

SEP 1 1921

DURATION OF SUNSHINE.

Mean Batavia Time.	8 / 8½	8½ / 9	9 / 9½	9½ / 10	10 / 10½	10½ / 11	11 / 11½	11½ / 12	12 / 12½	12½ / 1	1 / 1½	1½ / 2	2 / 2½	2½ / 3	3 / 3½	3½ / 4	Daily and Monthly Means.
JUNE. 1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
2	0	0	6	9	4	7	0	7	5	10	10	10	10	10	10	10	6.8
3	10	3	0	0	0	0	0	0	0	3	7	6	0	6	8	1	2.8
4	8	7	10	10	9	8	7	6	10	3	5	7	10	5	10	3	7.4
5	10	10	10	10	10	7	8	2	5	9	8	10	10	10	7	10	8.5
6	9	8	0	0	0	7	8	7	7	8	0	0	5	4	10	10	5.2
7	3	10	10	10	7	5	6	0	7	2	5	3	4	4	5	9	5.6
8	0	4	10	9	10	8	8	2	8	7	9	8	4	5	10	10	7.0
9	10	10	10	10	10	10	10	10	9	7	9	10	6	9	10	10	9.4
10	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.6
11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
12	1	6	10	10	10	10	7	3	4	3	9	7	10	8	10	10	7.4
13	9	10	10	7	0	0	0	0	7	8	10	9	6	9	10	10	6.6
14	10	10	10	10	10	10	10	10	10	10	10	10	9	4	7	10	9.4
15	10	10	10	10	10	10	10	10	10	9	8	9	10	10	10	10	9.8
16	3	7	4	5	4	2	6	5	6	8	7	10	10	10	10	10	6.7
17	0	0	2	10	10	3	3	8	8	7	10	6	3	5	10	10	5.9
18	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
19	10	10	10	10	10	10	6	9	2	8	4	4	7	0	2	7	6.8
20	9	7	9	9	8	8	8	10	4	5	7	0	1	6	8	7	6.6
21	0	0	0	4	4	6	0	0	1	4	1	0	0	0	0	0	1.3
22	7	4	4	10	10	8	10	9	4	6	3	1	1	5	10	4	6.0
23	2	7	5	9	10	10	9	9	7	6	8	10	10	7	7	10	7.9
24	7	10	10	10	10	6	7	8	3	6	8	10	10	10	10	10	8.4
25	10	10	10	10	10	9	6	5	5	6	7	8	10	9	10	9	8.4
26	7	10	10	10	10	10	9	10	8	9	8	10	10	10	7	10	9.3
27	10	10	10	10	9	8	8	8	7	9	7	10	6	7	9	10	8.6
28	10	10	10	7	8	7	8	9	10	2	3	10	10	10	10	10	8.4
29	10	10	10	10	9	10	10	10	8	10	10	10	10	10	10	10	9.8
30	10	10	10	10	10	10	10	7	5	8	6	0	0	6	1	3	6.6
Means.	7.0	7.8	8.0	8.6	8.1	7.6	7.1	6.8	6.7	7.1	7.3	7.3	7.1	7.3	8.4	8.4	7.54

Mean Batavia Time.	8 / 8½	8½ / 9	9 / 9½	9½ / 10	10 / 10½	10½ / 11	11 / 11½	11½ / 12	12 / 12½	12½ / 1	1 / 1½	1½ / 2	2 / 2½	2½ / 3	3 / 3½	3½ / 4	Daily and Monthly Means.
JULY. 1	8	8	9	10	10	9	10	10	9	9	10	9	7	7	10	10	9.1
2	10	10	10	10	10	10	10	9	9	6	4	8	9	9	4	4	8.3
3	2	2	10	10	10	10	10	10	10	9	10	10	10	10	10	10	8.9
4	1	5	7	3	10	10	6	6	3	10	10	10	10	10	10	10	7.5
5	10	10	10	10	8	9	10	10	5	5	6	10	10	10	10	10	8.9
6	10	10	10	10	10	10	10	10	7	4	1	10	10	9	9	10	8.8
7	10	4	10	10	10	10	10	7	10	9	5	10	10	3	6	7	8.2
8	10	10	8	8	10	10	10	10	10	10	10	9	7	9	10	8	9.3
9	5	10	5	10	10	8	9	5	3	2	9	8	5	5	2	7	6.4
10	5	10	9	10	10	7	8	3	9	10	10	10	10	10	10	10	8.8
11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
12	10	10	10	10	10	8	10	4	7	10	7	0	1	6	0	3	6.6
13	5	10	10	10	10	7	3	10	0	0	1	2	5	7	8	9	6.1
14	10	10	10	10	10	10	10	10	9	10	7	10	10	10	10	10	9.8
15	10	9	7	2	4	4	7	10	8	7	3	4	10	6	8	5	6.5
16	0	0	2	4	3	2	7	9	4	6	1	3	7	7	7	9	4.4
17	1	7	10	4	3	4	9	4	3	10	10	10	10	10	10	10	7.2
18	10	10	10	10	10	9	7	9	8	10	10	10	10	10	10	9	9.5
19	10	10	10	10	10	10	10	10	9	8	10	10	10	10	10	10	9.8
20	10	10	10	10	10	8	6	4	4	6	3	8	10	10	10	10	8.1
21	7	0	8	10	10	9	10	10	10	10	9	8	10	10	10	10	8.8
22	10	7	7	4	8	4	5	10	10	10	10	10	10	10	10	10	8.4
23	9	10	10	10	10	10	10	8	4	7	9	10	10	8	4	9	8.6
24	10	10	10	10	10	10	10	10	10	10	6	10	10	10	10	10	9.8
25	10	10	10	10	10	7	6	9	8	10	10	10	10	10	10	10	9.4
26	10	10	10	10	10	10	9	9	10	10	10	10	10	10	10	10	9.9
27	10	10	10	10	10	10	10	8	8	10	10	10	10	10	10	10	9.8
28	10	10	10	10	8	9	8	7	4	10	10	10	10	10	10	10	9.1
29	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
30	10	10	10	10	10	10	8	9	10	10	10	10	10	10	10	10	9.8
31	10	10	10	8	9	7	3	8	10	10	10	8	10	10	10	10	8.9
Means.	8.2	8.5	9.1	8.8	9.1	8.4	8.4	8.3	7.5	8.3	7.8	8.6	9.1	8.9	8.6	9.0	8.54

DURATION OF SUNSHINE.

	Mean Batavia Time.	8 8½	8½ 9	9 9½	9½ 10	10 10½	10½ 11	11 11½	11½ 12	12 12½	12½ 1	1 1½	1½ 2	2 2½	2½ 3	3 3½	3½ 4	Daily and Monthly Means.
AUGUST.	1	1	1	4	9	8	9	3	10	10	10	10	10	10	10	10	10	7.8
	2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9.9
	3	10	10	10	9	10	9	9	9	8	9	10	10	10	10	10	10	9.6
	4	10	10	10	10	9	8	7	9	8	8	10	10	10	10	10	10	9.3
	5	10	10	10	10	10	10	9	9	7	10	10	8	9	10	10	10	9.5
	6	10	10	10	10	9	9	4	4	5	8	9	8	10	10	10	10	8.5
	7	10	10	10	10	10	10	8	8	7	10	10	10	10	10	10	10	9.6
	8	10	3	6	7	4	7	9	9	8	9	10	10	10	10	10	10	8.3
	9	10	10	10	10	9	9	7	4	6	9	6	8	10	10	10	10	8.6
	10	0	7	9	8	10	9	7	8	9	3	10	10	10	10	10	10	8.1
	11	0	0	2	2	2	4	7	8	6	9	10	7	7	10	10	10	5.9
	12	10	10	10	10	10	10	9	8	10	10	10	10	10	10	10	10	9.8
	13	9	10	7	9	8	1	0	0	6	10	10	10	10	10	10	10	7.5
	14	10	10	10	10	10	10	8	9	7	10	10	10	10	10	10	10	9.6
	15	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
	16	7	5	7	5	6	4	8	8	3	7	10	9	10	10	10	10	7.4
	17	7	6	3	2	3	4	9	1	0	7	7	8	10	10	10	10	6.1
	18	10	9	9	8	5	7	6	9	10	10	10	10	10	10	10	10	8.9
	19	10	10	10	10	9	8	9	8	10	5	4	10	10	10	10	10	8.9
	20	10	10	9	9	8	8	8	1	6	10	5	9	10	10	10	10	8.3
	21	10	9	10	10	10	10	10	9	9	10	10	10	10	10	10	10	9.8
	22	10	10	3	1	0	6	9	8	9	8	10	10	10	10	10	10	7.8
	23	9	10	10	10	9	10	10	10	10	10	10	10	10	10	4	2	9.0
	24	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	9.9
	25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
	26	10	10	10	10	10	10	10	6	8	2	7	9	9	10	10	10	8.8
	27	10	10	10	10	7	8	5	7	0	0	10	10	10	10	10	10	7.9
	28	10	10	10	10	10	10	10	9	10	9	10	10	10	10	10	10	9.9
	29	1	0	3	8	7	3	0	1	0	3	6	5	8	9	3	6	3.9
	30	10	10	6	0	8	7	4	8	8	6	9	9	10	10	10	10	7.8
	31	10	10	10	10	10	10	9	9	9	10	10	10	10	10	10	10	9.8
	Means.	8.5	8.4	8.3	8.3	8.1	8.1	7.5	7.4	7.4	8.1	9.1	9.4	9.8	10.0	9.6	9.6	8.60

	Mean Batavia Time.	8 8½	8½ 9	9 9½	9½ 10	10 10½	10½ 11	11 11½	11½ 12	12 12½	12½ 1	1 1½	1½ 2	2 2½	2½ 3	3 3½	3½ 4	Daily and Monthly Means.
SEPTEMBER.	1	10	10	10	9	7	8	7	5	7	0	7	10	10	7	0	9	7.3
	2	10	10	10	10	10	9	9	8	10	10	10	10	0	2	7	0	7.8
	3	1	3	1	0	2	3	0	0	0	0	0	0	0	0	0	0	0.6
	4	10	10	9	10	9	9	5	6	5	3	5	4	9	10	10	9	7.7
	5	10	8	6	9	5	1	2	8	9	10	9	6	7	10	10	10	7.5
	6	10	10	10	10	10	9	10	9	8	10	10	9	9	10	10	10	9.6
	7	10	10	10	9	9	7	6	7	4	1	7	10	10	10	10	10	8.1
	8	10	10	10	10	10	7	6	7	6	6	2	10	10	10	10	10	8.4
	9	10	10	5	10	10	9	8	3	10	10	10	10	10	10	1	1	7.9
	10	10	9	10	10	10	10	9	10	9	9	8	10	10	10	8	7	9.3
	11	7	4	10	7	10	10	10	10	10	8	5	7	10	10	10	10	8.6
	12	10	9	9	9	10	8	8	6	1	0	0	0	0	0	0	0	4.4
	13	3	8	9	1	1	1	2	1	2	0	1	5	2	0	0	0	2.3
	14	0	0	0	1	0	3	6	3	7	4	6	4	4	3	0	0	2.6
	15	7	6	8	10	9	3	0	0	0	0	2	6	3	8	6	6	4.6
	16	10	10	8	10	7	7	6	4	9	10	10	10	9	7	5	7	8.1
	17	10	8	10	9	8	7	4	10	10	10	10	8	10	10	10	10	9.0
	18	10	10	9	10	10	9	6	9	10	10	10	10	10	10	10	10	9.6
	19	7	8	8	8	7	8	8	9	10	10	10	10	10	10	10	10	8.9
	20	10	10	9	10	7	6	9	3	3	4	10	10	10	10	10	10	8.2
	21	10	10	10	10	8	4	5	7	10	10	10	10	10	10	10	10	9.0
	22	8	9	10	8	9	7	7	10	10	10	10	10	10	10	10	10	9.3
	23	10	10	10	10	10	10	8	10	10	10	10	10	10	10	10	10	9.9
	24	0	7	9	6	0	1	3	2	6	7	1	0	0	0	0	0	2.6
	25	10	10	6	3	3	4	7	0	5	3	4	5	6	10	10	10	6.0
	26	10	10	6	6	10	9	9	8	8	10	10	10	10	10	7	6	8.7
	27	10	9	10	10	9	10	10	10	7	10	10	10	10	10	10	10	9.7
	28	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	9.9
	29	10	10	10	10	10	10	9	10	7	6	10	10	10	10	10	10	9.5
	30	10	10	10	10	7	4	3	1	3	10	10	10	7	7	6	7	7.2
	Means.	8.4	8.6	8.4	8.2	7.6	6.8	6.4	6.2	6.9	6.7	7.2	7.8	7.5	7.8	7.0	7.1	7.41

DURATION OF SUNSHINE.

OCTOBER.

Mean Batavia Time.	8 8½	8½ 9	9 9½	9½ 10	10 10½	10½ 11	11 11½	11½ 12	12 12½	12½ 1	1 1½	1½ 2	2 2½	2½ 3	3 3½	3½ 4	Daily and Monthly Means.
1	10	10	10	10	10	8	7	9	10	10	9	6	1	8	6	0	7.8
2	10	10	10	7	5	6	7	0	7	6	0	1	7	8	9	1	5.9
3	9	10	9	9	8	7	7	8	10	8	7	8	9	9	9	1	8.0
4	10	10	9	9	7	8	5	10	10	10	7	8	10	10	10	6	8.7
5	10	10	10	9	10	8	6	10	10	4	0	9	10	10	10	10	8.5
6	9	9	10	10	6	5	5	6	9	5	9	1	9	4	0	0	6.1
7	3	7	6	3	1	8	2	6	8	10	10	10	10	10	10	10	7.1
8	10	10	10	9	0	1	8	7	2	0	9	5	0	0	9	3	5.2
9	10	9	10	10	9	10	6	2	5	1	8	9	10	10	10	9	8.0
10	10	10	8	8	7	5	2	6	7	7	10	10	9	10	10	2	7.6
11	10	10	10	10	10	7	6	4	0	7	4	0	0	0	0	0	4.9
12	10	10	10	10	10	10	7	7	3	9	9	10	10	10	7	0	8.3
13	0	2	7	1	3	4	0	2	6	6	8	10	9	10	4	7	4.9
14	1	1	6	8	7	1	0	0	6	0	0	0	0	0	1	3	2.1
15	10	10	10	10	10	10	10	10	7	10	10	10	10	10	10	10	9.8
16	10	10	10	10	10	10	8	8	10	10	10	5	6	7	10	10	9.0
17	10	10	10	10	10	10	10	10	7	10	10	10	10	10	10	10	9.8
18	10	10	9	10	9	9	9	9	10	9	10	10	10	10	10	10	9.6
19	6	7	10	7	10	10	6	0	0	2	1	7	9	10	10	10	6.6
20	9	2	10	10	10	10	9	8	8	2	8	10	10	10	10	10	8.5
21	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	9.9
22	10	10	10	10	10	10	6	7	8	9	10	10	10	10	10	10	9.4
23	10	10	6	7	6	7	6	7	8	10	10	10	10	10	10	10	8.6
24	10	10	10	10	10	10	10	8	9	10	10	10	10	10	10	10	9.8
25	9	10	6	9	10	4	4	7	7	7	8	10	10	10	10	10	8.2
26	10	10	10	10	10	10	5	6	10	10	10	10	10	10	10	10	9.4
27	10	10	10	10	8	8	9	10	10	10	9	10	10	10	10	10	9.6
28	1	4	7	8	7	7	8	7	4	9	10	10	10	10	2	0	6.5
29	5	10	10	10	7	4	7	8	8	8	9	10	6	8	6	0	7.3
30	10	7	8	7	6	7	9	4	10	10	8	9	7	9	10	2	7.7
31	10	10	10	10	10	9	7	8	5	8	10	10	10	10	10	10	9.2
Means.	8.5	8.6	9.1	8.7	7.6	7.5	6.5	6.6	7.2	7.3	7.8	8.0	8.1	8.5	8.2	6.3	7.78

NOVEMBER.

Mean Batavia Time.	8 8½	8½ 9	9 9½	9½ 10	10 10½	10½ 11	11 11½	11½ 12	12 12½	12½ 1	1 1½	1½ 2	2 2½	2½ 3	3 3½	3½ 4	Daily and Monthly Means.
1	6	7	8	6	7	10	10	7	5	3	9	10	7	10	10	10	7.8
2	10	10	10	10	7	10	10	8	7	10	10	10	10	10	10	10	9.5
3	10	10	8	9	10	6	3	2	10	10	10	10	10	10	10	10	8.6
4	10	10	10	10	10	9	8	9	10	10	10	10	10	10	10	10	9.8
5	10	10	10	10	10	8	2	7	5	6	6	7	10	10	9	9	8.1
6	10	10	9	5	6	5	2	7	7	10	4	5	8	9	10	10	7.3
7	10	10	10	10	10	5	7	2	6	10	10	10	10	10	10	10	8.8
8	9	10	10	10	7	8	4	0	5	6	2	7	0	0	4	2	5.3
9	0	0	0	0	0	0	0	0	1	1	3	1	3	2	4	2	1.1
10	0	8	10	7	5	7	4	0	1	1	2	2	5	10	7	2	4.4
11	10	10	8	3	1	0	4	1	3	2	10	10	9	8	6	3	5.5
12	0	0	0	0	7	7	5	5	1	4	9	8	2	6	7	7	4.3
13	8	3	7	4	7	9	7	8	10	10	10	10	10	10	10	10	8.3
14	10	6	7	7	4	3	1	8	6	7	5	0	0	0	0	8	4.5
15	10	10	8	7	3	8	6	6	8	8	10	10	10	10	10	10	8.4
16	10	8	10	8	10	8	6	3	7	9	9	4	7	4	3	7	7.1
17	10	10	10	4	4	3	2	6	10	9	2	7	3	10	10	10	6.9
18	10	10	10	9	8	6	6	8	9	10	10	10	10	8	8	8	8.8
19	10	10	10	8	8	8	7	5	8	6	8	7	8	9	10	10	8.3
20	10	10	10	10	10	8	6	7	10	10	10	10	10	10	8	2	8.8
21	10	10	10	7	6	3	8	9	10	10	10	10	10	10	8	3	8.4
22	10	10	7	6	7	5	3	3	0	5	0	2	8	8	3	0	7.8
23	8	8	9	7	6	6	7	4	8	10	10	10	10	10	8	4	4.8
24	9	9	8	3	2	3	1	1	2	0	3	2	3	0	1	0	2.9
25	6	6	8	7	5	2	9	10	10	10	10	10	10	0	0	0	6.4
26	4	10	10	10	8	9	7	3	5	9	10	10	7	5	3	4	7.1
27	10	10	7	10	4	0	0	4	0	0	0	2	2	0	1	0	3.1
28	1	0	4	6	9	10	10	8	10	10	10	10	0	0	0	0	5.5
29	10	10	10	7	4	7	6	7	10	10	10	6	4	0	0	0	6.3
30	10	10	9	8	4	7	4	8	6	8	3	4	10	7	1	0	6.2
Means.	8.0	8.2	8.2	6.9	6.3	6.0	5.2	5.2	6.3	7.1	7.2	7.1	6.9	6.5	6.0	5.4	6.66

DURATION OF SUNSHINE.

DECEMBER.

Mean Batavia Time.	8 / 8½	8½ / 9	9 / 9½	9½ / 10	10 / 10½	10½ / 11	11 / 11½	11½ / 12	12 / 12½	12½ / 1	1 / 1½	1½ / 2	2 / 2½	2½ / 3	3 / 3½	3½ / 4	Daily and Monthly Means.
1	10	10	8	6	0	0	0	6	8	8	9	2	4	2	0	2	4.7
2	10	10	4	1	0	0	3	0	0	0	0	4	7	7	6	4	3.5
3	10	10	7	3	2	5	6	8	1	0	0	0	7	10	3	0	4.5
4	10	10	9	10	10	10	10	10	6	6	9	7	10	10	7	7	8.8
5	0	0	3	7	8	9	9	6	8	7	4	2	10	10	10	10	6.4
6	10	10	8	2	2	3	5	1	9	9	9	10	9	10	10	8	7.2
7	10	8	4	7	7	3	5	0	0	3	7	4	0	0	0	0	3.6
8	10	10	10	10	6	4	9	10	10	10	10	9	10	10	10	10	9.3
9	8	10	7	5	8	8	7	8	1	9	10	9	4	2	8	8	7.0
10	0	0	0	0	0	0	0	0	3	2	1	0	2	0	8	4	1.3
11	1	4	4	8	0	0	0	3	1	1	1	0	2	3	8	5	2.6
12	10	8	5	1	0	0	0	0	0	0	0	0	0	0	0	0	1.5
13	10	10	10	9	6	10	10	10	8	10	9	10	3	0	0	0	7.2
14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	7	9	10	10	6	7	10	10	10	10	10	10	10	4	0	0	7.7
16	3	5	5	5	6	6	2	0	4	0	0	0	0	0	0	0	2.3
17	5	9	2	2	0	4	4	7	10	7	9	10	10	10	10	10	6.8
18	10	10	10	10	10	10	8	3	2	3	5	6	6	2	0	2	6.1
19	2	1	1	1	3	3	3	1	5	3	6	3	7	6	4	0	3.1
20	10	10	6	8	9	9	7	4	5	7	7	8	7	0	2	4	6.4
21	2	3	6	8	8	2	3	8	8	3	2	4	10	10	8	7	5.8
22	8	10	10	10	10	10	7	3	2	0	0	6	5	0	2	0	5.2
23	4	7	5	4	9	9	10	8	9	7	4	2	0	0	0	0	4.9
24	10	10	10	9	8	9	6	4	3	1	7	8	7	9	4	0	6.6
25	3	3	8	9	7	7	7	8	8	8	6	5	6	9	6	0	6.3
26	0	0	0	0	0	0	0	4	3	0	0	3	0	0	0	0	0.6
27	1	7	6	6	8	6	4	5	8	10	10	7	2	0	0	1	5.1
28	6	7	10	8	4	8	4	5	6	10	7	6	0	0	0	0	5.1
29	0	0	7	2	0	1	8	1	0	1	5	10	7	8	8	7	4.1
30	9	9	6	7	8	5	0	2	0	0	0	0	0	0	3	5	3.4
31	10	10	10	9	9	8	8	9	7	7	6	0	0	0	0	0	5.8
Means.	6.3	7.0	6.4	5.9	5.1	5.2	5.2	4.8	4.8	4.7	5.1	4.8	4.8	4.1	3.9	3.1	5.08

MAGNETICAL OBSERVATIONS.

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°40'0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	8.9	8.9	8.8	8.5	8.3	7.5	6.1	5.5	5.5	5.9	7.8	9.6	—
	2	8.9	8.9	8.3	8.8	8.5	7.7	7.2	7.2	8.0	8.9	9.6	10.0	—
	3	8.9	8.9	8.9	8.6	8.6	8.3	7.7	7.2	6.9	6.8	7.6	9.4	—
	4	8.9	8.9	8.9	8.8	8.8	8.8	8.2	7.3	6.8	6.9	6.9	7.8	—
	5	8.9	8.9	8.9	8.9	8.9	8.4	7.7	7.2	6.9	6.9	6.9	7.4	—
	6	8.4	8.4	8.3	8.2	8.2	8.0	7.2	7.7	8.1	7.2	7.6	7.7	—
	7	8.3	8.0	7.7	7.8	7.7	6.8	5.8	6.5	7.1	7.4	8.1	8.8	—
	8	8.5	7.8	7.7	7.7	7.7	7.1	6.8	7.8	9.2	8.8	8.9	9.0	—
	9	7.7	8.0	8.0	7.8	7.7	6.7	4.9	6.1	7.2	7.7	8.2	8.3	—
	10	8.4	8.4	8.3	8.1	7.8	6.9	6.9	7.8	8.5	8.8	9.0	9.6	—
	11	8.5	8.5	8.3	8.0	7.7	7.1	6.4	6.6	6.8	7.7	8.8	10.0	—
	12	8.4	8.3	8.3	8.2	7.8	6.5	6.0	6.8	7.5	8.6	9.6	10.0	—
	13	8.8	8.5	8.5	8.3	7.7	6.7	5.2	5.0	6.0	6.1	4.8	6.1	—
	14	6.0	5.9	5.6	5.7	5.5	5.7	4.9	4.7	5.2	5.9	5.9	6.9	—
	15	8.1	7.5	7.6	7.7	7.5	6.9	6.3	5.7	5.8	6.9	8.3	8.9	—
	16	8.5	8.2	8.2	8.1	7.7	7.1	6.8	7.6	8.0	8.1	8.2	8.7	—
	17	8.8	8.7	8.3	8.3	8.1	6.6	4.6	4.4	5.4	6.6	8.1	10.4	—
	18	8.1	8.1	8.0	7.7	8.0	7.6	7.7	7.7	8.1	7.4	7.3	8.3	—
	19	8.5	8.5	8.3	8.3	8.3	7.4	6.1	6.1	6.6	7.3	7.3	7.7	—
	20	8.0	8.0	8.1	8.0	8.0	7.5	6.7	7.5	7.4	7.7	8.3	9.6	—
	21	8.4	8.4	8.2	8.1	7.9	7.4	6.3	6.4	6.6	6.6	7.5	8.3	—
	22	8.4	8.3	7.9	7.9	7.7	7.2	6.6	6.6	6.8	7.4	6.4	6.5	—
	23	8.7	8.7	8.2	8.0	7.5	6.7	5.9	6.7	7.4	7.5	7.5	8.3	—
	24	7.6	8.0	6.8	7.7	6.8	6.6	6.5	6.6	6.8	6.5	7.3	7.9	—
	25	8.5	8.8	8.5	8.9	8.1	7.4	7.3	7.4	8.1	8.1	7.3	8.9	—
	26	9.0	9.3	8.8	8.1	8.0	7.1	6.1	6.5	7.3	7.9	8.8	10.0	—
	27	9.0	9.3	8.4	8.5	8.3	7.3	6.3	5.4	6.5	7.7	9.5	9.9	—
	28	8.5	9.1	8.2	8.4	8.2	6.6	5.5	5.0	6.6	7.7	8.3	8.9	—
	29	8.7	8.9	8.5	8.1	8.0	6.9	4.8	5.5	7.6	9.3	10.1	10.4	—
	30	8.4	8.4	8.3	8.3	8.2	7.2	4.9	4.3	5.1	6.4	8.3	9.8	—
	31	9.0	8.9	8.9	8.7	8.4	7.7	5.1	4.3	5.2	7.5	10.0	11.2	—
Hourly Means.		8.44	8.43	8.18	8.14	7.92	7.21	6.27	6.36	6.94	7.43	8.01	8.85	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	9.9	9.7	9.6	9.4	9.1	8.9	8.9	8.9	8.6	8.6	8.9	8.9	8.36
	2	11.2	11.0	10.5	10.0	9.4	9.7	9.4	9.1	9.2	9.2	9.1	9.0	9.12
	3	10.6	10.7	11.2	10.4	9.8	9.3	9.4	9.4	9.4	9.1	9.0	9.1	8.97
	4	8.6	9.9	10.5	10.0	9.3	9.4	9.4	9.4	9.4	9.1	9.0	8.9	8.75
	5	8.5	9.6	10.6	10.4	9.9	9.4	9.1	9.1	9.0	8.8	8.5	8.4	8.63
	6	9.1	9.2	10.0	10.0	9.6	9.7	9.6	9.4	9.1	8.9	8.3	8.3	8.59
	7	9.8	9.8	9.6	9.1	8.9	9.0	9.0	9.0	9.0	8.8	8.4	8.3	8.28
	8	10.0	10.5	10.6	9.8	10.8	10.0	10.0	9.8	10.6	9.0	8.2	8.0	8.93
	9	7.8	7.7	8.2	9.1	9.8	10.0	9.8	9.4	9.3	9.0	8.9	8.6	8.16
	10	9.4	8.9	8.6	8.5	8.8	9.2	9.6	9.0	9.1	9.1	9.0	8.5	8.59
	11	10.7	10.0	9.7	10.1	10.2	9.8	9.4	9.3	9.1	9.1	8.9	8.5	8.72
	12	11.0	11.0	10.5	10.1	9.6	9.4	9.4	9.4	9.2	9.0	9.1	8.9	8.86
	13	7.1	8.1	9.1	9.2	9.1	9.0	7.9	7.6	6.6	5.6	6.6	6.3	7.25
	14	8.5	9.8	10.3	9.5	8.8	9.0	7.3	8.9	8.4	8.5	8.3	8.2	7.23
	15	10.3	10.6	10.7	10.4	9.3	9.0	9.2	8.9	8.8	8.7	8.2	7.9	8.30
	16	10.5	11.4	12.0	10.6	9.8	8.9	9.3	9.2	9.1	8.9	8.8	8.9	8.86
	17	12.3	13.0	12.2	10.8	9.9	9.0	8.9	8.9	8.1	7.9	7.9	8.1	8.55
	18	10.0	10.3	9.7	9.0	8.3	8.8	8.8	8.9	8.9	8.8	8.8	8.5	8.45
	19	8.7	9.7	9.6	9.5	9.3	9.0	9.2	8.9	8.8	8.8	8.5	8.1	8.27
	20	10.6	10.8	10.6	9.9	9.3	9.0	9.2	9.0	8.9	8.8	8.7	8.5	8.67
	21	10.0	10.7	10.9	10.0	9.3	9.1	9.1	9.1	8.7	8.9	8.8	8.4	8.46
	22	8.5	9.1	9.2	8.7	8.5	8.4	9.1	9.2	8.7	8.5	8.4	8.7	8.03
	23	9.6	10.8	10.7	10.9	10.5	10.6	9.5	9.1	8.2	8.1	9.2	7.5	8.58
	24	8.9	9.0	9.0	8.8	9.1	9.2	9.8	9.6	8.9	8.9	8.9	9.1	8.40
	25	11.1	11.7	10.5	9.9	9.5	8.9	9.3	9.2	8.5	8.8	8.8	8.9	8.85
	26	10.3	9.7	9.1	8.5	9.1	9.2	9.6	9.3	9.1	9.0	8.8	8.8	8.64
	27	9.6	8.9	8.4	7.7	7.6	8.5	9.1	8.7	8.7	8.9	8.7	8.8	8.32
	28	9.1	9.0	8.9	8.3	8.4	8.7	8.5	8.8	8.7	8.8	8.8	8.7	8.15
	29	10.5	10.5	9.7	8.1	7.5	8.3	8.5	8.7	8.7	8.4	8.4	8.3	8.43
	30	10.4	10.0	10.1	9.3	8.8	8.8	9.2	9.5	9.5	9.2	8.9	9.0	8.35
	31	11.2	11.6	10.3	9.1	8.7	8.9	9.3	9.0	8.8	8.9	8.9	8.8	8.68
Hourly Means.		9.80	10.09	10.02	9.52	9.23	9.16	9.15	9.09	8.87	8.71	8.64	8.48	8.46

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	200	203	204	203	204	210	210	216	223	235	234	228	—
	2	206	203	201	205	206	209	216	221	226	235	248	247	—
	3	207	208	204	206	205	207	216	218	220	228	240	234	—
	4	202	202	206	204	202	204	214	221	226	237	251	249	—
	5	208	209	210	208	211	212	214	215	223	230	240	243	—
	6	215	216	215	215	221	215	211	221	238	208	245	232	—
	7	196	200	206	206	206	210	216	212	222	236	241	240	—
	8	230	226	231	216	206	221	211	198	218	219	234	218	—
	9	143	144	155	159	168	175	198	187	194	201	204	209	—
	10	185	188	187	188	190	195	201	207	215	229	232	230	—
	11	196	193	199	204	205	203	208	216	227	244	248	241	—
	12	188	188	189	191	197	201	216	225	231	238	241	246	—
	13	206	208	207	214	219	228	249	254	251	257	259	263	—
	14	150	158	170	154	168	173	178	190	195	214	214	209	—
	15	184	217	197	200	193	196	194	198	212	222	221	198	—
	16	183	185	188	192	192	197	208	216	231	248	242	230	
	17	196	197	197	200	202	210	219	221	229	240	233	221	—
	18	193	193	193	189	188	191	197	203	216	233	239	219	—
	19	194	192	193	193	199	201	205	207	217	233	229	221	—
	20	201	198	198	198	198	202	203	213	232	249	249	248	—
	21	207	207	208	209	209	210	212	216	232	240	248	245	—
	22	201	197	207	194	199	202	207	216	226	226	223	218	—
	23	197	201	201	198	203	207	210	216	218	225	221	225	—
	24	159	169	150	155	183	182	173	197	197	191	174	186	—
	25	179	177	176	178	171	171	184	195	194	192	185	180	—
	26	173	186	197	190	185	187	189	199	201	195	201	198	—
	27	174	185	195	184	192	190	202	219	221	223	216	199	—
	28	187	206	195	188	192	203	197	201	201	199	197	200	—
	29	194	183	188	192	191	197	211	218	216	215	202	179	—
	30	199	189	193	193	192	197	200	211	215	222	225	215	—
	31	198	199	202	204	203	208	213	232	253	265	257	243	—
Hourly Means.		192.0	194.4	195.5	194.5	196.8	200.5	205.9	212.2	220.0	226.7	228.8	223.0	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	220	207	197	195	203	204	205	194	194	193	195	195	207.2
	2	238	229	223	211	205	204	209	212	211	206	207	211	216.2
	3	233	219	208	204	211	209	209	207	199	204	204	202	212.6
	4	246	236	228	232	221	217	212	208	202	206	209	209	218.5
	5	235	228	219	214	213	213	211	215	210	211	214	216	217.6
	6	238	229	212	207	190	170	162	168	172	176	202	190	207.0
	7	235	235	229	219	213	209	209	208	207	206	225	230	217.3
	8	209	187	160	129	111	86	83	120	83	87	119	124	171.9
	9	205	201	193	192	190	185	187	187	185	182	184	185	183.9
	10	221	209	197	192	194	197	195	197	196	193	194	197	201.2
	11	235	226	216	204	195	189	181	178	180	179	184	186	205.7
	12	235	216	203	193	190	189	194	197	199	202	195	205	207.0
	13	255	244	216	185	156	126	127	161	135	188	141	156	204.4
	14	208	204	199	185	183	185	204	192	197	191	193	191	187.7
	15	202	188	183	173	185	185	189	186	188	178	191	192	194.7
	16	228	221	205	199	188	189	194	191	190	190	199	199	204.4
	17	215	205	196	194	191	187	189	185	195	196	196	191	204.4
	18	207	211	208	202	194	179	176	171	178	183	188	191	197.6
	19	216	215	207	202	197	193	193	196	194	193	197	201	203.7
	20	247	243	233	221	212	205	206	206	207	206	207	207	216.2
	21	241	232	216	207	207	206	207	208	190	178	194	200	213.7
	22	227	211	209	202	194	194	187	186	188	193	192	196	204.0
	23	226	226	203	186	164	166	189	166	139	126	153	159	192.7
	24	188	178	173	173	166	154	170	158	161	172	171	172	173.0
	25	183	185	178	181	182	180	165	166	182	177	181	173	179.8
	26	192	190	189	186	188	191	188	190	189	181	183	180	189.5
	27	188	200	200	193	197	192	190	197	192	183	185	207	196.8
	28	192	194	193	190	183	188	188	189	191	191	189	188	193.4
	29	174	177	182	191	193	185	196	190	191	198	193	195	193.8
	30	201	194	192	190	192	192	196	196	196	195	194	198	199.5
	31	226	212	202	199	199	197	198	196	195	192	190	202	211.9
Hourly Means.		218.3	211.4	202.2	195.2	190.5	186.0	187.4	187.8	185.0	185.7	189.3	191.9	200.9

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

JANUARY. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	346	343	342	342	344	348	350	346	328	316	303	311	—
2	328	331	334	330	330	330	330	333	323	317	316	315	—
3	335	335	335	334	334	335	334	343	342	332	317	319	—
4	345	343	341	341	343	343	348	327	324	316	307	301	—
5	324	322	321	321	319	319	319	317	311	306	305	310	—
6	321	321	321	321	318	320	332	330	325	319	313	309	—
7	324	322	320	320	320	324	319	298	293	283	278	274	—
8	306	309	309	317	319	310	312	311	303	317	310	319	—
9	323	320	317	315	314	320	312	304	292	290	291	290	—
10	318	317	317	316	315	315	303	291	289	293	298	303	—
11	317	317	315	313	314	318	314	298	288	276	267	269	—
12	317	315	315	314	315	318	309	303	299	296	295	288	—
13	312	312	311	309	309	308	303	291	287	308	288	282	—
14	331	330	311	327	314	318	311	311	299	279	279	278	—
15	332	310	326	325	327	330	335	325	311	286	272	282	—
16	330	328	322	321	321	323	314	309	295	286	286	286	—
17	329	329	330	328	326	334	326	308	278	253	251	231	—
18	340	340	338	340	342	341	343	355	344	328	323	323	—
19	350	351	351	351	347	350	354	347	337	320	321	322	—
20	347	348	349	349	347	348	346	328	312	300	307	295	—
21	349	348	347	345	345	347	349	323	311	305	298	292	—
22	347	349	344	352	347	349	353	355	344	355	370	356	—
23	355	355	355	356	354	358	351	328	322	312	308	298	—
24	385	376	388	380	356	367	370	347	344	344	348	326	—
25	373	375	378	375	380	381	370	359	358	360	366	344	—
26	377	370	366	372	376	381	378	367	357	353	328	326	—
27	378	370	365	375	369	375	372	351	339	325	329	348	—
28	373	361	370	376	373	376	380	370	362	357	348	340	—
29	369	374	370	369	370	376	371	353	339	341	343	358	—
30	367	372	370	370	371	376	383	378	361	353	344	352	—
31	372	370	369	369	369	370	369	338	303	275	286	313	—
Hourly Means.	342.6	340.7	340.2	341.1	339.6	342.2	340.6	330.5	320.0	312.9	309.5	308.4	—

JANUARY. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	319	330	333	335	335	331	332	338	341	339	336	334	334.3
2	322	326	337	346	346	339	335	335	335	339	338	335	331.3
3	321	328	335	342	339	340	341	341	346	344	346	346	336.0
4	292	295	303	309	320	321	322	324	327	325	324	324	323.5
5	313	320	319	319	322	324	324	323	324	324	324	321	318.8
6	307	319	320	328	338	346	346	341	339	335	319	326	325.6
7	276	289	309	319	322	316	315	314	314	314	311	304	307.4
8	326	337	351	367	371	380	373	351	360	357	341	333	332.9
9	304	312	312	311	311	317	319	319	321	320	319	318	311.3
10	307	315	317	321	320	317	319	320	318	319	319	318	311.9
11	280	299	306	310	318	324	326	326	325	324	319	318	307.5
12	285	298	306	309	314	317	315	315	316	315	317	309	308.3
13	274	284	298	332	349	374	363	336	342	328	344	320	315.2
14	279	281	294	319	328	328	324	326	323	328	329	331	311.6
15	288	303	321	328	318	316	315	315	324	334	325	326	315.6
16	288	296	325	340	345	347	336	337	335	335	328	328	319.2
17	250	279	307	325	334	340	337	340	337	335	336	342	314.9
18	328	338	359	366	372	373	369	368	361	356	353	353	348.0
19	308	307	322	331	337	348	350	349	351	351	349	347	339.6
20	299	317	344	357	364	362	355	352	350	351	350	349	338.6
21	279	285	313	337	348	350	345	342	355	364	351	346	332.3
22	356	364	373	383	380	367	367	366	362	360	359	357	359.0
23	299	307	341	353	378	376	362	376	404	404	395	378	351.0
24	334	352	367	366	366	376	370	378	382	376	376	376	364.6
25	334	340	364	370	375	380	385	386	374	376	375	376	368.9
26	335	351	350	358	358	361	368	369	372	375	376	376	362.5
27	360	356	370	383	380	375	374	375	376	381	377	362	365.2
28	351	340	351	358	363	364	367	370	370	370	371	370	363.8
29	358	368	372	372	369	369	366	372	373	369	373	371	365.2
30	367	378	378	386	382	377	375	375	376	376	376	372	371.5
31	337	354	372	380	380	376	372	374	376	377	377	371	356.2
Hourly Means.	312.1	321.5	334.5	343.9	347.8	349.4	347.3	346.9	348.7	348.4	346.2	343.1	335.8

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. 1°40'.0 + THE NUMBERS IN THE TABLE.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	7.7	7.9	8.1	7.9	7.7	6.9	5.1	3.9	4.4	5.1	6.7	8.0	—
2	8.6	8.8	8.8	8.6	8.5	8.0	6.2	4.8	5.1	6.0	7.9	10.0	—
3	9.1	9.1	9.1	8.8	8.6	8.3	7.1	5.0	3.4	3.7	6.4	9.7	—
4	8.5	8.7	8.5	8.6	8.5	8.6	7.3	6.2	6.1	6.3	8.3	9.9	—
5	8.5	8.5	8.6	8.7	8.7	8.9	8.3	7.3	6.7	6.9	7.0	8.8	—
6	8.6	8.8	8.5	8.5	8.5	8.9	8.7	7.7	7.2	6.7	6.7	8.1	—
7	8.5	8.3	8.1	8.0	8.0	8.0	7.6	7.6	7.6	7.9	7.8	7.8	—
8	8.6	8.5	8.1	7.7	7.7	7.1	5.7	5.6	6.4	8.5	10.0	10.9	—
9	8.7	8.8	8.4	8.0	7.6	6.9	5.3	4.7	5.6	8.1	10.8	12.0	—
10	8.6	9.1	8.7	8.6	7.9	7.5	5.3	3.9	4.4	5.6	7.2	9.6	—
11	8.5	8.5	8.5	8.9	8.6	7.9	6.5	5.3	5.2	6.2	8.0	11.2	—
12	8.0	8.3	8.3	7.9	7.8	8.0	6.9	4.4	4.8	7.1	8.9	10.9	—
13	8.0	7.5	7.8	7.9	8.0	7.8	6.8	5.1	4.4	4.8	6.8	9.1	—
14	8.4	8.5	8.4	8.1	8.1	8.1	6.8	5.4	5.0	5.3	6.7	9.1	—
15	8.4	8.4	8.3	8.4	8.4	8.0	6.8	4.5	3.0	2.9	5.4	9.1	—
16	8.6	8.7	8.6	8.7	8.5	8.4	7.9	6.2	6.0	5.6	5.6	8.1	—
17	7.9	8.1	7.9	8.5	8.3	7.9	7.1	6.2	5.6	5.7	6.7	8.9	—
18	8.6	8.9	8.7	8.4	8.4	8.3	7.7	6.3	5.7	6.8	8.0	9.2	—
19	8.5	8.4	8.4	8.3	8.3	8.0	7.9	6.3	5.6	6.0	7.0	8.3	—
20	7.7	8.5	8.5	8.6	9.1	8.5	7.9	5.6	5.0	5.7	6.3	7.9	—
21	7.9	8.7	8.5	8.5	8.8	8.4	7.3	6.2	6.3	6.4	7.2	8.8	—
22	8.7	8.4	8.4	8.5	8.4	8.5	6.5	5.2	5.0	5.1	6.2	8.5	—
23	8.8	8.8	8.9	8.8	9.1	9.1	8.5	7.3	6.7	6.7	7.6	8.9	—
24	8.5	8.5	8.4	8.3	8.5	8.0	6.9	5.1	5.1	5.5	7.2	9.1	—
25	8.6	8.6	8.5	9.3	8.8	8.7	7.7	6.3	5.5	5.4	6.2	7.8	—
26	8.6	8.6	8.6	8.7	8.8	9.2	8.4	5.7	5.5	6.2	7.3	8.7	—
27	8.9	8.7	8.5	8.5	8.4	8.0	7.2	6.4	6.0	6.8	8.0	9.3	—
28	8.7	8.7	8.6	8.6	8.5	8.1	7.9	6.4	6.3	6.8	7.3	8.6	—
29	8.5	8.5	8.5	8.4	8.4	7.9	7.2	6.4	5.6	5.6	7.3	8.5	—
Hourly Means.	8.46	8.54	8.46	8.44	8.38	8.13	7.16	5.76	5.49	6.05	7.33	9.13	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	9.4	9.6	10.8	10.1	9.2	8.9	8.8	9.1	8.9	8.9	8.8	8.6	7.94
2	11.0	10.7	10.5	10.0	9.2	9.1	9.2	8.9	8.9	8.8	8.7	8.9	8.55
3	11.3	11.6	11.7	11.2	10.0	9.2	9.1	9.1	8.8	8.8	8.8	8.6	8.60
4	11.6	11.9	11.4	11.1	10.2	9.5	9.2	8.8	8.6	8.5	8.4	8.5	8.88
5	9.7	10.3	10.3	11.2	10.5	10.2	10.2	10.1	9.1	8.4	8.5	8.6	8.92
6	9.9	10.9	11.1	10.7	10.0	9.1	9.1	8.8	8.8	8.8	8.6	8.5	8.80
7	8.3	8.8	8.8	9.3	10.0	10.0	9.7	9.6	9.2	9.1	8.8	8.6	8.56
8	10.8	10.7	10.0	9.4	9.3	9.3	9.1	8.9	9.1	9.1	8.9	8.7	8.71
9	13.3	12.8	11.7	11.1	10.2	10.3	9.7	9.3	9.1	8.8	8.9	8.8	9.12
10	10.9	10.8	10.3	10.2	9.9	9.7	9.2	8.6	8.4	7.8	8.1	8.6	8.29
11	13.1	12.5	11.9	10.8	10.5	10.8	9.7	10.0	9.3	8.9	8.7	8.1	9.07
12	12.1	12.1	10.4	9.7	8.8	8.9	9.1	8.8	8.6	7.9	7.8	7.9	8.48
13	10.7	11.1	10.9	9.5	8.9	8.9	8.7	8.6	8.7	8.6	8.5	8.3	8.14
14	10.9	11.3	11.3	10.2	9.3	8.9	8.7	8.5	8.5	8.5	8.5	8.4	8.37
15	11.6	12.1	11.9	10.7	9.6	9.2	8.9	8.8	8.8	8.7	8.3	8.7	8.29
16	10.8	11.2	11.3	10.4	9.3	9.1	9.2	9.1	9.1	8.3	7.9	7.9	8.52
17	10.4	11.6	11.1	10.1	9.6	9.1	9.1	8.7	8.7	8.5	8.5	8.6	8.45
18	9.9	10.5	10.2	9.4	8.9	8.9	8.9	8.6	8.6	8.4	8.3	8.6	8.51
19	9.9	10.1	10.2	10.0	9.2	9.2	9.1	8.4	8.5	8.5	8.5	8.1	8.36
20	9.7	10.5	10.8	9.9	8.9	9.1	8.7	8.6	8.5	8.3	8.1	8.3	8.28
21	9.9	10.8	10.8	10.1	9.6	9.1	8.5	8.7	8.4	8.7	8.6	8.5	8.53
22	10.2	10.5	10.8	10.1	10.0	9.9	9.6	9.1	8.8	8.6	8.4	8.1	8.40
23	10.4	10.8	10.9	10.2	9.6	9.3	9.2	9.2	9.1	8.6	8.6	8.5	8.90
24	10.0	10.7	10.4	10.1	9.5	9.6	9.4	9.2	8.9	8.5	8.4	8.4	8.43
25	9.6	10.5	10.4	9.9	9.3	9.3	9.1	8.8	8.9	8.6	8.8	8.6	8.47
26	9.9	10.5	10.2	9.3	8.6	8.8	8.6	8.5	8.6	8.6	8.6	8.7	8.47
27	10.4	10.3	10.2	10.0	9.3	9.1	9.1	8.8	8.8	8.8	8.7	8.6	8.62
28	9.6	10.2	10.4	10.2	9.5	9.1	8.7	8.7	8.6	8.5	8.5	8.6	8.55
29	10.0	10.7	10.2	9.9	9.5	9.1	9.1	9.2	8.8	8.7	8.6	8.8	8.48
Hourly Means.	10.53	10.90	10.72	10.17	9.53	9.33	9.13	8.95	8.80	8.59	8.51	8.49	8.54

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	202	199	192	195	200	200	204	215	221	235	247	240	—
2	197	199	196	197	198	200	205	217	230	238	242	239	—
3	200	198	199	199	198	199	202	214	226	237	252	255	—
4	206	185	183	183	188	192	200	203	212	225	233	234	—
5	195	195	190	191	202	204	201	205	226	225	225	231	—
6	197	195	201	201	202	202	207	217	227	233	243	250	—
7	200	202	203	202	202	205	210	215	225	236	246	243	—
8	205	204	207	214	208	209	218	222	229	236	242	248	—
9	195	198	208	212	205	225	219	232	271	284	285	294	—
10	196	202	201	201	200	202	202	201	204	200	206	209	—
11	191	196	196	203	202	205	213	219	242	262	276	249	—
12	193	191	198	214	199	195	202	206	219	226	236	236	—
13	185	202	186	191	191	194	197	207	219	232	243	240	—
14	192	191	193	193	193	199	204	214	229	242	252	254	—
15	199	200	197	195	195	198	196	205	219	233	248	238	—
16	197	197	199	198	205	206	206	213	224	226	243	248	—
17	188	179	215	194	191	188	184	195	205	217	231	223	—
18	181	176	181	188	188	192	199	206	217	226	240	237	—
19	186	180	172	195	186	183	167	199	201	202	210	207	—
20	177	162	194	178	177	170	178	176	203	205	210	212	—
21	195	175	178	178	181	186	189	186	195	210	219	223	—
22	181	190	177	176	182	181	184	185	186	197	203	210	—
23	175	181	178	179	180	185	184	184	195	199	201	207	—
24	178	179	181	179	179	185	186	200	208	219	221	221	—
25	179	182	190	198	193	191	192	195	204	214	214	219	—
26	186	191	191	190	191	191	198	208	212	215	223	229	—
27	176	180	183	184	189	186	185	189	197	208	219	225	—
28	181	183	186	188	190	191	194	206	212	211	221	228	—
29	177	182	189	187	190	200	208	214	224	228	228	230	—
Hourly Means.	190.0	189.4	191.9	193.2	193.3	195.3	197.7	205.1	216.6	224.9	233.1	233.8	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	229	218	212	202	197	196	195	195	197	199	199	195	207.7
2	228	215	208	203	196	194	195	195	197	199	201	200	207.9
3	251	240	228	218	210	207	204	205	202	200	202	206	214.7
4	229	220	210	199	192	193	191	193	193	197	198	199	202.4
5	214	210	200	186	195	190	176	161	176	192	193	194	199.0
6	248	244	232	219	211	205	202	200	200	197	197	200	213.8
7	244	234	229	221	214	205	200	191	186	191	197	200	212.5
8	248	236	224	210	209	211	211	208	201	198	198	200	216.5
9	209	235	210	180	172	177	172	188	192	185	184	193	213.5
10	208	214	205	208	199	189	174	179	174	187	185	183	197.0
11	214	224	214	191	176	181	188	172	186	186	189	205	207.5
12	221	208	201	186	193	185	195	191	187	201	189	184	202.3
13	231	221	210	198	194	191	195	196	191	192	192	191	203.7
14	242	237	219	204	199	194	194	199	198	197	195	198	209.7
15	228	212	194	185	188	192	195	195	194	196	195	195	203.8
16	236	229	218	205	200	196	184	165	158	173	186	181	203.9
17	219	208	186	183	178	174	168	185	177	181	178	175	192.6
18	222	205	194	181	162	172	162	169	170	176	181	183	192.0
19	198	189	177	172	172	174	174	171	174	177	172	172	183.8
20	202	188	175	174	162	172	179	174	177	177	191	177	182.9
21	209	195	176	162	172	170	166	166	161	168	181	175	184.0
22	208	205	191	184	184	167	171	172	176	170	190	181	185.5
23	197	195	196	191	187	181	166	153	166	176	175	176	183.6
24	215	198	187	185	181	172	167	177	177	180	185	181	189.2
25	209	199	192	179	172	171	172	179	167	177	177	184	189.5
26	222	208	192	186	175	176	180	176	179	176	176	180	193.8
27	226	204	196	188	186	185	180	181	184	178	181	181	191.3
28	227	215	200	186	182	181	177	170	175	179	177	176	193.2
29	233	204	206	224	191	212	197	184	191	189	188	186	202.6
Hourly Means.	223.0	214.1	202.8	193.4	187.9	186.7	183.8	182.4	183.0	186.0	188.0	188.0	199.3

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY.	1	324	326	329	326	324	328	329	322	308	293	280	284	—
	2	329	326	326	325	325	328	329	315	293	278	263	263	—
	3	332	332	332	331	331	331	340	345	333	305	269	266	—
	4	335	335	349	344	339	332	335	328	299	274	261	251	—
	5	341	343	346	343	334	333	350	358	328	321	303	291	—
	6	340	341	338	338	338	334	343	349	335	324	311	299	—
	7	348	345	344	343	341	345	346	343	328	316	310	305	—
	8	343	343	343	342	341	349	347	343	326	313	311	310	—
	9	347	347	340	338	346	337	340	322	280	256	266	270	—
	10	346	339	343	343	347	349	357	353	341	334	306	298	—
	11	345	342	343	337	342	343	346	333	310	298	286	306	—
	12	345	346	343	332	343	346	354	348	315	296	293	297	—
	13	356	344	353	349	348	349	358	350	327	300	285	288	—
	14	341	341	339	338	338	336	342	337	315	293	269	272	—
	15	339	338	338	339	339	338	350	361	350	326	283	264	—
	16	348	348	346	346	343	342	346	331	318	315	299	293	—
	17	343	349	326	338	343	343	352	349	333	318	296	291	—
	18	352	354	351	344	346	343	354	373	360	346	324	315	—
	19	363	366	372	360	365	366	382	378	365	355	339	330	—
	20	377	385	364	376	375	377	380	382	358	341	329	322	—
	21	373	382	380	379	376	374	379	385	368	352	338	329	—
	22	373	366	376	376	374	372	382	388	372	354	327	321	—
	23	390	382	383	382	382	379	387	397	388	376	365	355	—
	24	389	389	385	387	387	385	394	394	380	355	341	333	—
	25	387	383	380	374	380	380	393	397	385	371	355	343	—
	26	382	377	378	379	379	382	383	387	380	370	352	340	—
	27	387	383	381	380	379	382	387	391	379	360	338	325	—
	28	388	387	383	382	383	384	388	385	377	369	357	354	—
	29	388	385	380	379	379	376	380	384	382	380	380	368	—
Hourly Means.		356.9	356.0	354.9	353.4	354.0	353.9	360.4	359.6	342.5	327.2	311.6	306.3	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY.	1	295	311	314	323	334	332	329	328	328	326	327	330	318.8
	2	285	305	313	329	335	331	333	332	332	333	332	332	316.3
	3	274	289	311	332	345	343	341	337	338	338	336	336	323.6
	4	275	304	321	339	346	344	344	344	343	341	340	339	323.4
	5	301	322	341	345	346	348	359	368	358	346	343	341	337.9
	6	299	305	322	343	355	360	355	354	351	351	350	349	336.8
	7	304	315	324	330	335	347	350	356	357	353	349	346	336.7
	8	315	325	336	346	346	344	345	346	349	349	349	348	337.9
	9	325	338	365	385	385	373	371	355	352	354	355	349	337.3
	10	299	307	319	326	333	346	358	358	360	355	352	353	338.4
	11	347	346	349	371	373	361	355	361	355	352	351	336	341.2
	12	313	336	350	361	361	358	349	354	355	349	357	358	340.0
	13	295	312	333	348	351	349	346	344	346	344	344	343	335.9
	14	285	307	329	349	355	354	348	345	346	346	346	343	329.8
	15	282	307	332	350	351	349	349	349	350	349	350	349	334.7
	16	301	317	333	350	354	350	354	365	369	355	350	348	338.4
	17	301	315	344	352	357	357	361	355	355	354	354	355	339.2
	18	324	344	360	373	383	374	379	373	371	366	365	364	355.8
	19	338	354	371	380	378	376	379	381	380	376	379	383	367.3
	20	333	349	365	376	388	381	377	380	379	379	374	380	367.8
	21	338	351	371	384	382	381	388	380	387	379	373	375	371.0
	22	322	339	355	366	371	385	388	388	385	388	382	383	368.0
	23	357	365	369	379	385	392	401	407	400	391	391	390	383.0
	24	346	366	383	392	394	397	399	391	390	385	385	387	380.6
	25	339	353	368	380	391	393	391	390	395	389	387	382	378.6
	26	344	360	376	385	391	390	388	392	391	389	390	385	377.9
	27	332	352	367	385	389	391	394	394	393	394	392	391	376.9
	28	360	371	387	400	398	393	395	397	394	391	391	390	383.5
	29	361	385	391	385	396	380	388	397	396	394	394	394	384.3
Hourly Means.		316.9	332.8	348.2	360.8	365.8	364.8	366.0	366.2	365.7	362.6	361.7	360.7	350.4

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS — 1°40'.0 + THE NUMBERS IN THE TABLE.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	8.8	8.7	8.7	8.7	8.5	8.3	7.3	6.3	6.1	6.8	7.5	8.6	—
2	8.4	8.5	8.5	8.5	8.5	8.3	7.9	6.8	6.2	6.2	7.0	8.6	—
3	8.5	8.5	8.5	8.5	8.5	8.4	7.9	7.0	6.8	6.8	7.2	8.1	—
4	8.4	8.5	8.5	8.5	8.5	8.5	8.0	7.0	6.5	7.0	7.2	8.1	—
5	8.6	8.7	8.6	8.6	8.6	8.5	7.9	7.0	6.8	7.2	7.8	8.5	—
6	8.4	8.3	8.3	8.3	8.1	7.9	7.3	6.4	6.7	7.5	8.0	8.5	—
7	8.4	8.4	8.4	8.1	8.0	7.6	6.8	6.0	6.7	7.6	8.7	9.4	—
8	8.5	8.3	7.3	7.3	7.0	6.9	7.2	7.0	7.5	7.5	8.0	9.9	—
9	8.3	8.1	8.3	8.0	8.0	8.3	7.9	7.3	7.9	8.7	8.6	8.7	—
10	7.7	7.9	7.7	7.9	7.6	7.8	7.1	6.2	7.2	7.9	8.3	8.9	—
11	8.6	8.4	8.3	7.9	7.9	7.5	7.2	7.6	8.5	8.9	8.7	9.4	—
12	8.4	8.4	8.3	8.4	8.1	8.0	7 9	7.2	7.3	7.1	7.8	8.4	—
13	8.4	8.3	8.3	8.3	8.1	8.3	7.9	7.0	7.0	7.3	7.7	8.0	—
14	8.1	8.1	8.0	8.0	7.9	8.4	7.9	7.1	7.5	7.6	8.1	8.5	—
15	8.3	8.9	8.6	8.1	8.1	8.0	7.5	6.4	6.5	7.7	8.4	8.6	—
16	8.3	7.9	8.1	7.9	7.6	8.1	7.0	5.7	6.1	6.4	7.5	8.1	—
17	7.9	7.1	7.5	7.9	8.4	8.5	8.0	7.6	6.2	6.3	7.3	8.1	—
18	7.8	7.9	7.7	7.9	7.9	8.0	7.7	7.0	7.1	7.1	8.1	8.9	—
19	8.4	8.5	8.3	8.5	8.0	7.9	8.0	7.9	7.5	7.5	8.3	8.7	—
20	8.7	9.1	8.3	8.4	8.1	7.9	7.1	6.8	7.0	7.7	8.5	8.8	—
21	8.6	8.6	8.6	8.1	8.3	8.1	7.8	7.1	7.1	7.9	8.8	9.1	—
22	8.5	7.9	7.9	8.0	8.0	7.9	7.1	6.3	6.3	7.2	8.1	8.7	—
23	8.5	8.6	8.5	8.5	8.4	8.4	8.1	7.9	7.6	8.0	8.6	9.2	—
24	8.3	8.4	8.1	8.0	8.0	8.1	7.8	6.8	6.3	6.8	7.5	7.9	—
25	8.4	8.3	8.3	8.3	8.3	8.4	8.0	6.9	6.8	6.8	7.6	7.8	—
26	8.1	8.0	8.0	7.9	7.8	7.7	6.9	5.7	6.7	7.3	7.8	8.6	—
27	8.0	8.0	7.9	7.9	7.8	7.7	7.0	6.5	6.5	6.8	7.1	7.1	—
28	8.1	8.1	8.1	8.1	7.9	7.5	7.5	7.2	8.1	9.1	9.5	9.7	—
29	8.1	8.6	8.3	8.0	7.7	7.5	7.1	6.2	6.7	7.3	8.3	8.8	—
30	8.4	8.5	8.5	8.3	8.0	7.9	7.8	7.3	7.3	8.0	9.4	10.0	—
31	8.4	8.3	8.3	8.1	8.1	8.0	7.9	7.6	7.3	7.3	8.5	9.5	—
Hourly Means.	8.33	8.32	8.22	8.16	8.05	8.01	7.56	6.86	6.96	7.40	8.06	8.68	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	9.6	10.2	9.7	9.5	9.5	9.4	9.1	8.7	8.1	8.3	8.5	8.5	8.48
2	10.4	10.7	10.3	9.6	9.4	9.1	8.8	8.8	8.7	8.6	8.5	8.5	8.53
3	9.1	9.7	9.6	9.7	9.7	9.4	9.1	8.8	8.6	8.6	8.5	8.5	8.50
4	9.5	10.4	10.7	10.2	10.0	9.5	9.1	8.8	8.6	8.5	8.7	8.6	8.64
5	9.6	10.2	10.2	9.6	9.4	8 8	8.6	8.6	8.5	8.4	8.3	8.4	8.56
6	9.2	9.5	9.3	8.6	8.5	9.1	8.8	8.7	8.7	8.6	8.5	8.5	8.32
7	9.5	9.9	10.2	10.1	9.6	9.2	8.7	8.5	8.5	8.0	8.4	8.9	8.48
8	10.0	10.5	11.6	10.2	9.5	9.2	8.8	8.7	8.7	8.5	8.4	7.9	8.52
9	9.2	10.0	10.2	10.0	9.5	9.1	8.6	8.7	8.4	8.4	7.9	7.9	8.58
10	9.6	9.6	9.6	9.1	8.9	8.9	8.9	8.5	8.5	8.3	8.4	8.5	8.29
11	10.1	10.1	10.0	9.5	8.7	8.7	8.7	8.6	8.5	8.3	8.3	8.3	8.61
12	8.8	9.5	9.7	9.4	9.2	9.2	9.1	8.9	8.8	8.5	8.4	8.1	8.45
13	8.5	8.8	9.1	9.1	9.1	8.8	8.6	8.4	8.4	8.1	8.3	8.3	8.25
14	9.3	10.0	9.9	9.4	9.1	8.9	8.6	8.6	8.6	8.4	8.1	8.6	8.45
15	8.8	9.3	9.5	9.4	8.8	8.5	8.4	8.1	8.6	7.8	7.9	7.9	8.25
16	9.1	9.4	8.3	9.1	8.7	8.9	8.6	7.8	7.6	8.3	8.1	8.0	7.94
17	8.9	9.2	8.5	8.0	8.0	8.9	9.1	8.9	8.7	8.4	8.0	7.9	8.05
18	9.2	9.1	9.1	8.7	8.6	7.9	8.4	8.3	8.5	8.4	8.0	8.5	8.16
19	8.7	9.2	10.0	9.9	9.6	9.2	8.7	8.5	7.9	8.4	8.5	8.6	8.53
20	8.8	8.7	8.8	8.8	9.3	9.1	8.7	8.7	8.7	8.6	8.6	8.6	8.41
21	9.5	9.4	9.9	9.5	8.8	8.3	8.3	8.1	8.3	8.1	7.9	8.3	8.44
22	8.9	8.8	9.2	9.6	9.6	9.1	8.5	8.5	8.5	8.4	8.4	8.6	8.25
23	9.5	9.4	9.5	9.3	8.8	8.5	8.5	8.5	8.4	8.4	8.4	10.5	8.67
24	7.8	8.0	8.3	8.9	9.4	9.1	8.7	8.7	8.5	8.4	8.4	8.4	8.11
25	8.0	8.5	8.7	8.5	8.4	8.3	8.5	8.0	8.0	7.8	7.9	8.0	8.02
26	8.9	8.9	8.9	8.9	8.9	8.7	8.6	8.5	8.4	8.0	7.9	8.0	8.05
27	7.2	7.8	8.1	8.9	9.1	9.1	8.6	8.5	8.4	8.3	8.1	8.1	7.85
28	9.2	9.1	9.7	9.6	9.2	9.1	9.6	8.4	8.3	8.1	8.3	8.1	8.57
29	8.8	9.3	9.5	9.4	8.8	8.3	8.3	8.3	8.1	8.3	8.3	8 4	8.18
30	10.1	10.0	10.0	9.1	8.9	8.5	8.4	8.4	8.4	8.1	8.1	8.3	8.57
31	9.9	10.5	10.8	9.7	8.9	8.6	8.4	8.3	7.9	8.0	8.0	8.1	8.52
Hourly Means.	9.15	9.47	9.58	9.33	9.09	8.88	8.70	8.51	8.41	8.30	8.26	8.38	8.36

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	206	212	221	210	210	213	215	226	237	240	247	248	—
2	204	200	204	204	208	207	207	214	232	242	246	251	—
3	202	204	206	208	209	211	215	223	229	237	246	251	—
4	209	207	209	209	209	213	214	219	224	224	234	242	—
5	197	198	205	209	209	209	211	217	225	231	233	238	—
6	206	208	208	209	210	213	215	224	233	232	240	242	—
7	209	209	214	214	217	222	223	234	245	251	252	253	—
8	199	205	210	217	228	216	225	233	247	242	247	227	—
9	195	192	198	199	205	208	211	216	213	217	223	212	—
10	218	193	199	204	209	204	213	219	214	214	215	216	—
11	195	194	197	198	198	200	204	214	221	226	235	230	—
12	198	195	201	199	201	202	209	218	228	237	244	246	—
13	195	195	198	203	203	202	203	213	223	229	235	240	—
14	193	199	198	199	197	207	216	225	236	242	250	251	—
15	190	191	200	199	200	201	209	216	227	233	247	253	—
16	180	176	175	187	183	196	203	195	201	213	225	218	—
17	170	185	166	171	173	166	180	172	195	208	211	217	—
18	180	163	193	178	175	177	166	184	189	205	209	209	—
19	173	180	188	174	175	166	174	183	189	198	197	200	—
20	180	194	179	176	176	176	184	189	201	199	205	205	—
21	180	176	176	176	175	179	180	196	214	214	225	230	—
22	175	180	183	181	182	181	185	193	199	203	212	214	—
23	178	180	190	185	185	185	195	208	218	225	235	235	—
24	186	185	194	187	185	185	192	203	210	221	229	223	—
25	191	192	192	195	197	203	209	220	226	233	233	234	—
26	196	197	203	204	207	210	214	221	228	226	237	244	—
27	191	190	195	199	200	202	206	218	229	237	244	246	—
28	198	195	199	201	204	223	224	234	238	244	255	254	—
29	181	181	180	189	182	183	180	198	201	215	223	232	—
30	187	185	190	188	197	193	195	211	219	227	237	236	—
31	197	198	198	201	198	201	198	199	206	213	215	220	—
Hourly Means.	192.2	192.2	195.8	195.9	197.0	198.5	202.4	210.8	219.3	225.1	231.8	232.8	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	237	225	214	202	196	197	197	195	202	202	202	198	214.7
2	247	230	216	202	204	204	204	204	202	201	200	201	213.9
3	241	229	215	204	201	204	205	205	205	202	209	206	215.3
4	235	224	214	204	199	203	199	199	204	200	198	195	212.0
5	233	224	214	212	210	208	205	206	204	204	203	202	212.8
6	233	219	213	211	208	209	209	207	203	202	202	203	215.0
7	258	246	242	234	229	223	225	221	220	224	219	208	228.8
8	223	204	179	170	174	172	189	193	190	189	195	198	207.2
9	217	214	213	204	201	197	194	189	186	184	190	214	203.8
10	209	199	198	194	200	192	193	190	178	180	186	188	201.0
11	225	211	196	191	195	199	195	196	194	189	192	194	203.7
12	238	219	207	201	199	198	197	195	187	194	192	199	208.5
13	233	222	208	198	192	195	194	195	193	192	192	190	206.0
14	238	222	208	199	198	196	198	199	197	195	202	194	210.8
15	243	222	208	197	201	204	212	220	237	202	214	214	214.2
16	212	182	159	167	164	166	153	152	101	109	93	138	172.8
17	188	179	152	146	136	147	120	125	144	157	165	188	169.2
18	177	161	145	147	151	151	148	165	166	162	189	171	173.4
19	193	180	157	154	171	174	172	174	176	172	166	171	177.4
20	199	181	166	164	168	170	171	166	165	165	165	169	179.7
21	220	208	195	186	181	179	168	177	176	178	185	176	189.6
22	209	189	180	178	178	178	181	181	180	176	174	173	186.0
23	224	201	192	187	185	187	183	184	180	171	176	182	194.6
24	215	215	198	194	191	194	189	184	188	182	188	191	197.0
25	226	209	199	192	199	199	195	195	193	195	195	197	205.0
26	233	214	199	194	195	195	195	192	190	190	190	188	206.8
27	240	222	207	198	195	197	195	193	193	193	195	196	207.5
28	250	234	222	214	195	166	142	176	186	188	182	183	208.6
29	223	207	195	193	191	186	186	185	185	182	186	185	193.7
30	228	196	192	190	189	192	195	192	192	192	195	197	200.6
31	219	210	189	182	176	177	179	176	173	167	171	172	193.1
Hourly Means.	224.7	209.6	196.5	190.6	189.4	189.0	186.7	188.1	186.8	185.1	187.5	189.7	200.7

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

MARCH.	Mean Batavia Time. 1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	371	365	358	362	362	361	365	362	350	341	331	320	—
2	368	369	366	366	361	362	368	368	354	346	341	332	—
3	372	371	368	367	365	364	363	339	338	335	329	313	—
4	349	349	348	345	346	343	345	338	331	324	315	309	—
5	349	346	342	339	338	338	346	356	344	329	320	321	—
6	370	368	367	367	365	364	370	367	353	350	342	343	—
7	368	368	365	365	364	362	361	346	329	320	316	320	—
8	378	374	373	368	357	362	359	357	348	358	360	357	—
9	375	375	371	370	368	366	368	378	380	375	368	367	—
10	373	393	390	383	382	385	387	382	376	367	365	360	—
11	383	385	384	384	385	385	382	371	365	358	353	357	—
12	384	387	382	384	384	382	390	396	387	380	371	365	—
13	390	390	389	385	385	387	392	395	385	379	372	367	—
14	397	391	391	390	392	387	388	380	368	363	360	356	—
15	390	387	379	381	380	380	385	374	363	347	345	348	—
16	379	385	386	378	377	371	378	405	393	381	373	373	—
17	395	384	398	393	389	395	392	408	391	368	355	343	—
18	390	407	387	396	401	397	411	405	398	389	387	384	—
19	402	399	393	403	403	405	399	371	370	360	359	361	—
20	381	374	384	385	383	384	384	380	361	350	346	348	—
21	379	381	384	385	384	381	384	374	356	349	341	341	—
22	390	388	384	385	385	384	389	385	374	360	348	344	—
23	388	387	380	384	384	382	384	388	370	357	349	349	—
24	392	394	387	392	393	392	395	398	387	368	356	362	—
25	390	390	390	389	388	385	384	385	376	360	354	358	—
26	393	392	390	390	390	390	395	390	368	360	346	345	—
27	400	400	397	396	397	397	401	393	382	378	372	373	—
28	398	398	396	396	395	387	387	360	354	351	352	358	—
29	385	384	385	378	384	384	388	377	366	351	338	332	—
30	382	382	379	381	377	380	382	381	369	362	348	354	—
31	385	385	384	381	385	381	387	390	381	374	360	357	—
Hourly Means.	382.1	382.2	379.9	379.6	379.0	378.2	380.9	377.4	366.7	357.7	350.4	348.9	—

MARCH.	Mean Batavia Time. 1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	325	340	352	362	366	366	369	371	371	368	368	370	357.3
2	334	345	362	370	370	370	371	372	374	374	374	374	362.1
3	318	335	349	356	353	350	351	351	352	353	350	351	349.7
4	310	317	334	344	349	345	350	350	348	349	349	351	339.1
5	331	339	353	357	363	370	372	370	371	370	371	373	350.3
6	351	364	377	382	379	371	372	373	374	374	374	373	366.3
7	320	330	341	356	367	371	370	374	371	367	368	373	353.8
8	368	368	386	398	392	389	379	376	378	378	374	375	370.9
9	360	367	376	389	393	396	399	401	404	402	398	385	380.5
10	371	379	378	378	379	388	390	399	404	401	393	391	383.1
11	358	369	381	387	388	386	390	391	393	393	391	389	379.5
12	370	379	390	394	394	393	393	394	394	395	393	388	386.2
13	373	378	387	392	400	399	399	400	400	400	399	399	389.3
14	359	367	379	385	389	390	388	387	389	389	387	389	381.7
15	350	362	376	384	380	377	372	370	401	395	395	386	375.3
16	374	392	400	399	402	399	406	414	406	427	399	411	392.0
17	371	387	411	411	412	405	422	422	407	398	395	384	393.2
18	397	406	414	413	412	415	410	411	401	404	390	401	401.1
19	366	371	381	378	370	374	381	386	384	387	390	389	382.6
20	355	374	381	381	378	384	385	390	390	391	390	387	376.9
21	355	368	380	389	393	393	397	390	390	387	387	392	377.5
22	356	370	378	381	385	390	389	388	388	389	390	390	379.6
23	363	380	392	398	404	403	399	399	398	402	398	394	384.7
24	371	374	388	386	386	391	396	398	395	395	392	390	386.6
25	372	389	401	407	404	400	400	400	401	398	396	394	388.0
26	351	362	382	392	395	400	403	405	406	406	404	403	385.8
27	375	374	385	395	398	400	403	405	405	404	401	399	392.9
28	359	362	368	374	388	406	420	399	385	384	388	387	381.3
29	343	353	364	374	381	386	387	387	386	387	385	385	373.8
30	359	379	387	392	392	389	387	390	392	392	389	387	379.7
31	358	365	381	395	401	401	398	400	403	405	401	399	385.7
Hourly Means.	355.6	366.0	377.9	383.8	385.9	387.0	388.6	389.1	389.1	389.2	386.4	385.8	377.0

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°40'0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	8.4	8.6	8.7	8.6	8.6	8.4	8.7	8.0	7.3	7.6	8.3	8.9	—
	2	8.7	8.7	8.6	8.4	8.6	8.6	8.6	7.8	7.2	7.3	7.9	8.4	—
	3	8.3	8.7	8.7	8.6	8.8	8.7	8.9	8.4	7.3	8.2	9.4	9.2	—
	4	8.3	8.3	8.3	8.1	7.6	8.3	8.3	7.2	7.5	7.5	7.8	7.8	—
	5	8.8	8.4	8.7	8.8	9.1	9.1	9.0	8.3	7.8	8.1	8.8	9.6	—
	6	8.7	8.4	8.6	8.6	8.9	8.8	8.8	7.2	6.3	6.7	7.1	7.5	—
	7	8.7	8.9	8.8	8.8	8.7	8.9	8.9	7.9	6.8	7.1	7.8	8.3	—
	8	8.6	8.2	8.7	8.6	8.7	8.9	9.2	8.3	7.8	8.0	9.0	9.1	—
	9	8.7	8.7	8.7	8.7	8.4	8.4	8.7	7.8	7.6	8.2	9.0	9.7	—
	10	8.9	8.8	8.8	8.8	8.6	8.6	8.7	7.6	7.0	7.2	7.4	8.1	—
	11	8.6	8.6	8.4	8.3	8.1	8.2	7.9	7.8	7.6	8.7	9.4	9.5	—
	12	9.2	9.6	9.5	8.9	8.3	9.1	9.1	8.4	7.0	7.8	8.1	8.4	—
	13	8.7	8.7	8.7	8.9	8.8	9.6	9.4	7.9	7.2	7.2	7.8	8.3	—
	14	8.2	8.3	9.7	9.2	9.6	9.5	8.9	8.0	8.0	8.2	8.6	8.8	—
	15	8.0	8.4	9.2	8.6	8.8	8.9	8.9	8.0	7.2	6.8	7.9	8.9	—
	16	10.0	9.8	10.3	10.5	9.4	8.8	8.3	7.6	7.1	7.2	6.7	6.6	—
	17	8.4	8.4	8.6	8.6	8.3	8.4	8.2	7.5	6.7	6.8	7.6	7.6	—
	18	8.6	8.8	8.8	8.8	9.1	9.0	9.0	8.2	7.5	7.8	7.9	8.3	—
	19	8.7	8.7	8.6	8.6	8.6	8.3	8.3	7.5	6.5	6.2	6.6	7.2	—
	20	8.8	8.9	8.9	8.8	8.4	8.4	8.4	6.8	6.3	6.7	8.1	8.8	—
	21	8.8	8.9	8.7	8.7	8.7	8.6	8.0	6.8	6.0	6.4	7.2	8.1	—
	22	8.4	8.6	8.6	8.7	8.4	8.6	8.6	7.8	6.6	6.0	6.3	7.0	—
	23	8.3	8.6	8.6	8.6	8.4	8.6	7.9	6.4	5.6	5.9	6.7	7.0	—
	24	8.6	8.6	8.6	8.7	8.7	8.7	8.3	7.0	6.0	6.3	6.7	7.1	—
	25	8.8	8.8	8.8	8.7	8.9	9.0	9.0	8.0	7.6	7.8	8.7	8.4	—
	26	8.7	8.7	8.7	8.8	8.8	8.8	9.2	8.1	7.0	6.8	7.1	6.8	—
	27	8.3	8.3	8.3	8.3	8.4	8.7	9.0	8.0	7.3	7.5	7.8	7.6	—
	28	8.6	8.6	8.6	8.6	8.4	8.6	8.9	7.5	6.4	6.4	7.3	7.6	—
	29	8.2	8.4	8.4	8.2	8.1	7.9	8.3	7.2	7.0	7.5	8.1	8.4	—
	30	8.4	8.4	8.4	8.3	8.4	8.1	8.4	7.4	7.1	7.3	7.3	8.0	—
Hourly Means.		8.61	8.66	8.77	8.69	8.62	8.68	8.66	7.68	7.01	7.24	7.81	8.16	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	9.4	9.7	9.9	9.6	9.4	9.1	8.9	8.6	8.6	8.4	8.7	8.6	8.71
	2	8.9	9.2	9.5	9.5	9.6	9.4	8.8	8.6	8.3	8.3	8.3	8.4	8.57
	3	9.5	9.4	9.6	10.7	10.6	9.2	9.0	9.0	8.9	8.4	8.0	8.4	8.91
	4	8.3	9.4	9.5	10.5	10.0	9.5	8.8	9.0	8.3	8.6	8.3	8.3	8.48
	5	10.0	10.8	10.5	10.0	10.4	9.5	8.8	8.6	8.0	8.1	8.4	8.7	9.01
	6	8.3	9.4	9.4	9.8	9.9	9.6	8.8	8.9	8.4	8.7	8.7	8.7	8.51
	7	8.0	8.3	9.2	10.0	9.7	9.5	8.9	8.9	8.9	8.4	8.8	8.7	8.62
	8	8.8	8.2	8.8	9.7	9.7	9.2	8.6	8.6	8.4	8.3	8.4	8.6	8.68
	9	9.5	9.1	9.1	9.4	9.2	8.9	8.9	8.9	8.8	8.7	8.7	8.9	8.78
	10	8.0	8.1	8.0	8.3	8.9	9.0	8.8	8.7	8.3	8.4	8.4	8.6	8.33
	11	9.5	9.6	10.0	10.1	9.2	9.0	9.1	8.3	8.0	7.6	7.8	8.2	8.65
	12	8.4	9.2	9.2	9.5	9.5	9.1	8.8	7.9	7.9	8.1	8.2	8.0	8.63
	13	8.3	9.1	9.7	10.4	9.9	9.2	8.3	8.1	8.2	8.2	8.3	8.2	8.63
	14	8.3	8.6	8.9	8.9	8.6	8.6	8.1	7.9	7.2	8.2	8.2	7.5	8.50
	15	8.9	8.7	9.0	9.6	9.5	9.5	8.6	8.3	8.3	8.1	8.3	8.7	8.55
	16	7.2	8.6	9.4	10.3	9.7	9.4	8.9	8.6	8.6	8.0	8.1	8.3	8.64
	17	7.6	8.3	9.1	9.8	9.7	9.0	8.8	8.4	8.3	8.3	8.4	8.6	8.31
	18	8.6	9.5	10.3	9.9	9.6	9.1	8.9	8.4	8.4	8.3	8.3	8.4	8.73
	19	7.8	8.3	9.0	9.7	9.5	8.8	8.7	8.4	8.3	8.3	8.4	8.4	8.23
	20	9.2	9.7	9.5	9.4	9.2	8.3	8.6	8.3	8.2	8.1	7.8	8.4	8.42
	21	8.6	9.5	10.0	9.8	9.4	9.0	8.7	8.6	8.2	8.3	8.3	8.3	8.40
	22	7.6	8.7	9.9	10.1	9.5	8.6	8.4	8.3	8.1	8.1	8.2	8.3	8.23
	23	7.3	8.3	9.5	9.7	9.1	8.9	8.7	8.4	8.2	8.2	8.3	8.4	8.07
	24	7.6	8.4	8.8	9.6	9.4	8.6	8.3	8.3	8.0	8.2	8.3	8.4	8.13
	25	7.3	7.4	8.6	9.1	9.2	8.9	8.7	8.6	8.3	8.3	8.3	8.6	8.48
	26	6.8	7.6	7.8	8.6	8.8	8.7	8.6	8.4	8.3	8.0	8.2	8.2	8.15
	27	7.6	8.3	8.7	9.1	9.0	8.8	8.6	8.3	8.3	8.4	8.3	8.6	8.31
	28	7.5	8.0	8.9	9.0	8.4	8.2	8.4	8.1	8.0	7.5	7.6	7.5	8.03
	29	8.4	8.6	8.9	9.1	9.1	8.7	8.6	8.3	8.3	8.1	8.2	8.3	8.26
	30	8.1	8.8	9.1	9.5	9.2	8.3	8.1	8.0	8.1	8.0	8.1	8.2	8.21
Hourly Means.		8.31	8.83	9.26	9.62	9.43	8.99	8.67	8.46	8.27	8.22	8.28	8.38	8.47

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	186	186	188	191	196	199	201	209	219	227	233	233	—
	2	195	204	204	205	206	209	217	227	233	239	245	248	—
	3	198	198	201	218	225	232	247	247	281	243	219	214	—
	4	181	186	191	191	202	198	205	211	190	188	198	209	—
	5	191	188	210	205	195	194	200	209	219	227	232	224	—
	6	196	194	191	198	195	199	209	214	206	206	220	224	—
	7	187	192	192	190	195	197	204	216	224	233	240	238	—
	8	186	200	192	195	196	197	203	219	224	229	233	231	—
	9	195	192	190	192	192	195	198	209	217	222	238	232	—
	10	189	188	189	191	192	194	204	217	225	234	245	241	—
	11	194	196	199	202	202	206	215	233	251	252	270	252	—
	12	123	136	162	195	179	172	189	184	187	189	174	171	—
	13	160	157	160	165	168	163	174	182	195	205	214	214	—
	14	198	170	167	176	165	181	184	189	186	191	204	198	—
	15	167	173	185	171	173	178	178	195	205	219	204	199	—
	16	176	175	178	178	178	183	188	195	211	223	229	224	—
	17	183	183	185	185	187	190	194	195	206	214	224	214	—
	18	185	183	184	184	188	194	198	212	219	225	226	222	—
	19	185	185	186	186	195	194	196	202	209	219	231	228	—
	20	190	194	195	205	206	201	208	227	237	248	253	244	—
	21	184	185	184	186	189	192	201	210	223	233	240	233	—
	22	186	186	186	189	191	195	201	208	219	233	244	236	—
	23	192	194	194	193	195	199	205	214	224	234	238	228	—
	24	198	200	199	199	202	203	211	219	229	242	254	238	—
	25	196	192	199	196	195	200	207	205	215	228	225	214	—
	26	187	186	187	188	194	198	196	204	214	228	231	221	—
	27	192	192	195	196	200	203	209	218	225	235	242	236	—
	28	195	193	197	199	201	203	206	211	223	234	238	237	—
	29	196	199	201	203	203	208	216	224	223	237	243	240	—
	30	208	210	209	227	228	228	238	247	256	243	266	271	—
Hourly Means.		186.6	187.2	190.0	193.3	194.4	196.8	203.4	211.7	219.8	226.0	231.8	227.1	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	226	211	205	206	202	199	195	193	195	194	195	192	203.4
	2	241	224	214	197	191	186	181	183	188	193	201	198	209.5
	3	206	192	186	161	171	181	186	174	174	173	181	179	203.6
	4	199	194	191	189	185	184	181	181	195	181	186	191	192.0
	5	205	186	173	176	163	170	180	186	186	181	180	190	194.6
	6	216	203	186	176	179	175	189	176	186	184	186	188	195.7
	7	223	213	206	199	197	195	195	193	186	198	194	190	204.0
	8	231	208	194	186	186	190	190	188	195	190	186	186	201.5
	9	224	212	201	191	190	190	190	188	186	186	186	186	200.1
	10	229	214	200	191	191	193	194	194	192	193	192	193	203.5
	11	235	210	187	148	148	144	100	71	98	118	119	117	182.0
	12	173	143	151	143	129	152	130	116	129	135	138	145	156.0
	13	172	177	156	121	103	126	136	165	136	152	156	164	163.4
	14	194	171	154	155	159	162	161	153	166	157	158	178	174.0
	15	190	191	174	157	157	156	167	175	167	170	178	171	179.2
	16	201	190	186	174	171	173	173	176	179	187	188	188	188.5
	17	206	199	189	185	181	185	184	180	179	181	184	183	191.5
	18	204	186	175	167	166	176	178	179	179	178	181	181	190.4
	19	216	202	190	189	191	193	192	189	187	188	186	192	197.1
	20	224	206	196	189	190	189	193	189	187	186	181	178	204.8
	21	222	211	202	192	190	188	186	186	187	184	183	186	199.0
	22	224	211	192	184	184	188	190	189	187	187	189	192	199.6
	23	211	199	195	191	192	195	195	196	196	196	197	198	203.0
	24	228	214	205	200	190	198	196	188	190	188	190	197	207.4
	25	201	193	190	184	183	184	180	177	176	177	180	191	195.3
	26	206	191	188	186	186	186	181	178	176	186	191	193	195.1
	27	228	221	209	200	193	193	193	193	193	190	193	189	205.8
	28	233	223	208	199	195	198	194	195	209	205	200	200	208.2
	29	233	222	208	195	191	194	195	195	194	201	200	208	209.5
	30	262	221	205	199	190	189	192	189	186	185	185	186	217.5
Hourly Means.		215.4	201.3	190.5	181.0	178.1	181.1	179.9	177.8	179.5	180.8	182.1	184.3	195.8

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

APRIL. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	385	385	382	380	378	375	378	363	357	346	338	340	—
2	370	364	364	364	364	359	358	358	355	346	337	333	—
3	369	370	370	356	361	350	349	357	341	343	353	368	—
4	375	371	369	367	367	364	364	364	370	366	354	350	—
5	372	374	361	366	374	371	370	364	351	339	336	341	—
6	365	370	371	369	370	368	371	371	367	358	345	345	—
7	372	370	370	371	370	369	367	381	369	353	349	352	—
8	398	389	392	391	391	387	386	383	375	366	362	374	—
9	394	393	394	394	394	391	389	384	377	378	369	375	—
10	397	396	396	396	396	394	393	397	393	381	375	377	—
11	402	399	399	399	399	399	395	385	370	356	348	360	—
12	413	407	395	380	396	399	398	412	411	394	393	390	—
13	396	404	403	402	402	403	403	405	396	383	371	370	—
14	381	401	400	395	402	391	395	401	402	400	396	399	—
15	405	403	396	405	405	400	405	397	389	375	376	380	—
16	402	402	399	399	399	396	395	395	382	374	366	364	—
17	405	405	404	402	402	399	401	403	395	384	372	381	—
18	405	405	405	404	402	395	396	394	391	383	376	375	—
19	404	403	403	403	399	399	399	394	388	377	361	362	—
20	395	393	393	389	388	389	388	361	349	333	323	333	—
21	386	386	387	386	384	381	377	370	360	346	340	346	—
22	383	382	382	382	381	378	377	371	370	363	357	361	—
23	378	378	378	380	380	377	379	395	380	367	358	367	—
24	391	391	391	393	393	391	391	400	391	381	370	375	—
25	398	399	395	399	403	399	395	406	398	385	386	393	—
26	399	401	400	401	401	394	399	406	402	387	387	394	—
27	398	398	395	396	395	392	391	396	388	375	367	371	—
28	401	401	398	396	397	394	397	401	389	378	369	376	—
29	401	395	394	394	395	389	389	395	389	377	376	371	—
30	388	387	387	377	376	374	378	388	378	377	364	358	—
Hourly Means.	390.9	390.7	389.1	387.9	388.8	385.6	385.8	386.6	379.1	369.0	362.5	366.0	—

APRIL. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	347	352	359	361	367	370	372	374	373	372	372	370	366.5
2	340	348	359	371	372	378	379	378	373	370	367	367	361.4
3	374	382	382	386	376	375	373	380	378	378	378	378	367.8
4	352	348	364	367	371	377	376	377	374	375	374	371	367.0
5	356	370	383	383	392	390	378	377	377	376	378	368	368.6
6	345	355	367	367	370	378	373	381	376	376	373	373	366.8
7	370	381	382	388	395	399	396	397	401	394	394	395	378.5
8	386	394	395	395	398	399	400	402	398	396	399	398	389.8
9	385	393	400	406	408	407	403	404	404	404	402	400	393.7
10	383	393	404	408	406	407	407	407	408	407	406	403	397.1
11	377	388	404	430	432	427	454	465	447	423	427	419	404.3
12	386	406	399	408	417	414	424	440	423	417	416	409	406.1
13	392	388	404	430	439	421	414	396	417	409	403	402	402.2
14	405	418	425	420	417	414	414	419	411	417	415	400	405.8
15	381	385	388	397	405	410	409	401	406	407	402	405	397.2
16	371	375	382	401	408	411	413	409	408	405	406	405	394.5
17	388	388	388	395	403	407	408	409	409	408	406	406	398.7
18	386	389	401	412	413	407	406	407	408	408	406	405	399.1
19	371	376	382	385	391	395	397	401	401	399	399	395	391.0
20	349	363	376	384	383	388	386	386	387	388	388	393	375.2
21	355	364	371	382	388	389	389	388	387	387	386	383	375.8
22	364	364	370	382	390	388	386	383	386	386	382	378	376.9
23	376	380	379	391	396	397	397	395	398	395	393	393	383.6
24	378	382	385	390	403	403	403	408	405	407	403	399	392.7
25	401	396	393	401	405	408	409	411	410	408	405	397	400.0
26	405	409	403	402	402	405	406	407	411	407	401	398	401.1
27	372	378	387	398	406	408	409	410	410	409	405	404	394.1
28	376	377	383	393	402	402	403	405	399	401	401	399	393.3
29	380	380	388	395	402	401	401	398	401	396	395	389	391.3
30	363	388	395	398	408	408	409	409	413	410	411	407	389.6
Hourly Means.	373.8	380.3	386.6	394.2	398.8	399.4	399.8	400.8	400.0	397.8	396.4	393.6	387.6

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°40′.0 + THE NUMBERS IN THE TABLE.

MAY. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	8.4	8.3	8.4	8.4	8.4	8.4	8.6	8.4	7.5	7.2	7.8	8.0	—
2	8.4	8.5	8.6	8.4	8.4	8.4	8.4	7.4	6.7	6.4	6.7	7.0	—
3	8.5	8.4	8.4	8.7	8.6	8.8	8.7	8.0	7.6	7.7	7.4	7.5	—
4	8.6	9.0	9.1	8.8	8.8	9.2	9.4	8.6	7.9	7.7	6.9	6.3	—
5	8.3	8.4	8.4	8.4	8.4	8.6	9.0	8.6	8.2	8.4	8.2	8.0	—
6	8.4	8.5	8.5	8.5	8.4	8.6	8.8	8.4	8.0	8.2	7.9	7.2	—
7	8.4	8.6	8.5	8.5	8.6	8.7	9.3	8.0	7.2	7.5	7.6	8.2	—
8	8.5	9.3	8.4	9.6	9.8	9.9	9.8	9.4	8.8	8.8	8.0	7.9	—
9	7.9	8.6	9.0	9.1	8.8	9.1	9.6	9.0	8.4	7.8	7.4	7.2	—
10	8.0	8.7	8.6	9.1	9.0	9.1	9.0	8.4	7.2	7.4	7.2	7.8	—
11	8.4	8.6	9.6	8.4	8.5	8.7	9.2	8.4	7.8	7.8	7.9	7.5	—
12	8.4	8.7	8.8	8.5	8.6	9.1	9.4	8.4	7.7	7.4	7.2	7.6	—
13	8.5	8.6	8.7	9.0	8.8	9.5	9.5	9.1	8.3	8.0	7.4	7.2	—
14	8.6	8.7	8.7	8.8	8.8	8.8	9.5	9.0	8.2	7.5	7.0	7.1	—
15	8.2	8.3	8.4	8.4	8.4	8.5	9.0	8.4	7.5	7.2	7.0	7.2	—
16	8.3	8.4	8.5	8.6	8.5	8.8	8.7	8.2	7.0	6.3	6.3	7.0	—
17	7.8	8.2	8.3	8.5	8.3	8.4	7.8	6.4	5.6	6.2	6.2	6.9	—
18	8.2	8.3	8.4	8.5	8.5	8.8	8.8	8.4	8.0	7.6	7.4	7.7	—
19	8.2	8.4	8.3	8.0	8.8	8.6	8.4	8.0	6.8	7.2	7.5	8.3	—
20	8.5	8.5	8.5	8.7	9.0	9.0	9.3	7.9	6.7	6.4	6.8	7.7	—
21	8.3	8.8	8.4	9.1	8.5	8.8	9.3	9.2	8.0	10.2	9.8	10.1	—
22	8.0	8.4	8.6	8.7	8.7	9.1	9.0	7.8	6.9	6.6	6.4	6.4	—
23	8.4	8.5	8.4	8.5	8.3	8.6	8.6	8.4	7.8	7.8	7.5	7.5	—
24	8.2	7.9	8.2	8.5	8.4	9.4	9.5	8.6	8.4	7.2	7.2	6.9	—
25	8.2	8.2	8.3	8.4	8.5	8.5	9.1	8.5	7.5	6.6	6.3	6.2	—
26	7.8	8.4	8.4	8.5	8.2	9.0	9.5	8.4	7.5	6.1	5.6	5.6	—
27	8.2	7.9	8.2	7.9	8.4	8.5	9.5	8.5	6.9	6.2	6.0	6.4	—
28	7.9	8.3	7.6	8.5	8.0	8.6	9.1	8.4	7.5	7.2	7.2	7.2	—
29	7.4	7.9	7.9	7.6	7.9	8.2	8.4	8.4	7.2	6.9	6.7	7.2	—
30	7.9	7.9	7.9	8.0	7.9	8.2	8.4	7.2	7.1	7.1	8.0	8.4	—
31	7.5	7.7	7.7	7.6	7.9	8.2	8.5	8.5	7.5	7.2	6.9	7.4	—
Hourly Means.	8.20	8.42	8.44	8.52	8.52	8.78	9.00	8.33	7.53	7.35	7.21	7.37	—

MAY. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	7.9	9.8	12.1	9.4	10.3	8.7	8.4	7.8	7.7	6.7	7.7	8.3	8.44
2	7.9	8.7	9.3	10.2	9.5	8.7	8.0	8.2	7.9	8.0	8.0	8.4	8.17
3	7.2	8.0	9.1	10.1	9.2	8.8	8.5	8.3	8.4	8.2	8.4	8.5	8.38
4	6.7	7.8	9.1	9.4	9.0	8.5	8.3	8.2	8.0	8.0	8.2	8.4	8.33
5	7.9	8.0	8.7	9.5	9.2	8.7	8.6	8.4	8.2	8.2	8.2	8.4	8.45
6	7.1	7.6	8.4	9.1	9.0	8.4	8.2	8.3	8.0	8.2	8.0	8.4	8.25
7	8.4	9.8	8.7	9.8	9.1	8.4	8.4	5.6	6.8	7.7	7.5	8.3	8.23
8	8.0	8.3	8.5	9.2	9.3	7.8	7.7	6.8	7.8	7.7	7.7	7.7	8.53
9	8.0	7.7	8.4	9.5	9.1	8.6	8.4	8.2	7.2	7.5	7.8	7.8	8.34
10	8.6	9.4	9.5	9.5	8.8	8.4	7.5	8.4	8.0	7.7	7.9	8.4	8.40
11	7.6	9.2	10.1	10.0	9.0	8.4	7.9	8.0	8.0	8.0	7.8	8.4	8.47
12	8.2	8.5	9.3	9.1	9.0	8.3	8.2	8.0	7.8	7.8	7.9	8.4	8.35
13	7.8	8.2	8.7	9.0	8.8	8.8	8.4	8.4	8.4	8.2	8.4	8.5	8.51
14	7.9	8.0	8.4	9.2	9.0	8.5	8.4	8.2	7.9	8.0	8.0	8.2	8.35
15	7.8	8.6	9.3	9.5	8.7	8.2	7.8	7.9	7.7	7.8	7.8	8.2	8.16
16	8.0	9.0	8.8	9.1	9.1	8.4	7.9	7.9	7.8	7.8	7.7	8.0	8.09
17	8.2	9.6	9.5	9.5	9.0	8.4	8.3	8.2	7.9	7.8	7.9	8.2	7.96
18	8.5	9.1	9.4	9.5	8.8	8.2	8.0	7.6	7.6	7.4	7.8	8.4	8.29
19	8.4	9.3	9.0	8.6	8.0	8.2	7.8	7.7	7.8	8.0	8.3	8.4	8.17
20	8.4	9.0	9.2	9.1	8.3	7.4	7.1	7.2	7.2	7.5	6.8	7.7	8.00
21	8.6	8.3	8.3	7.5	8.4	8.3	8.7	7.2	7.6	7.2	7.6	7.6	8.49
22	7.1	7.8	8.2	8.6	8.3	7.8	7.6	7.6	7.7	7.7	7.8	8.2	7.88
23	8.3	8.5	8.6	8.5	8.2	7.7	7.7	7.9	7.8	8.2	7.9	8.3	8.16
24	7.1	7.7	8.4	9.4	8.5	7.8	7.8	7.5	7.6	7.6	7.6	8.4	8.08
25	7.1	7.6	8.5	8.6	8.5	7.6	7.5	7.6	7.6	7.6	7.8	7.9	7.84
26	6.6	7.8	8.5	8.4	8.3	7.2	7.2	8.3	8.0	7.2	7.5	7.5	7.73
27	7.8	7.6	8.4	8.8	8.7	8.4	7.5	7.2	7.2	7.4	7.5	7.4	7.77
28	7.6	8.0	8.5	8.5	7.8	7.7	7.5	7.5	7.5	7.2	7.5	7.4	7.84
29	7.7	8.0	8.6	9.2	8.4	7.7	7.7	7.8	7.6	7.4	7.5	7.5	7.78
30	8.4	8.5	9.4	9.2	8.7	8.4	7.6	7.2	7.5	7.4	7.5	7.6	7.98
31	8.2	8.2	8.3	8.4	8.2	7.8	7.8	7.8	7.7	7.5	7.5	7.6	7.82
Hourly Means.	7.84	8.44	8.94	9.14	8.78	8.20	7.95	7.77	7.74	7.70	7.79	8.08	8.17

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	191	193	196	201	206	211	217	232	243	256	276	249	—
2	177	191	182	182	182	183	191	190	202	210	215	201	—
3	175	187	188	186	187	191	197	201	210	220	225	219	—
4	184	186	191	190	188	187	195	201	204	211	212	205	—
5	192	190	192	192	192	195	202	211	216	221	225	222	—
6	193	194	195	196	197	200	204	207	211	216	220	214	—
7	192	198	199	201	206	217	235	256	260	279	288	272	—
8	165	179	177	167	172	181	183	180	182	172	176	173	—
9	169	171	178	177	180	182	174	180	185	188	191	185	—
10	178	176	176	174	176	173	180	193	211	195	204	201	—
11	178	175	192	186	184	189	193	201	200	203	193	191	—
12	169	177	179	179	182	184	194	201	206	211	210	208	—
13	196	179	177	180	182	184	197	206	215	225	218	213	—
14	175	174	182	182	180	186	191	197	211	221	223	215	—
15	182	184	186	186	187	191	191	197	208	216	216	210	—
16	194	199	199	199	202	201	207	212	225	232	225	215	—
17	181	182	183	183	186	192	203	209	213	220	225	219	—
18	184	186	189	192	194	196	205	211	214	220	222	218	—
19	194	194	196	198	201	199	197	211	216	218	219	213	—
20	180	184	185	187	186	189	195	205	215	221	225	220	—
21	182	190	185	200	178	183	173	158	149	115	98	102	—
22	151	147	153	159	154	154	173	178	178	180	188	184	—
23	163	165	163	168	170	173	181	193	204	214	218	208	—
24	173	166	161	166	171	175	184	180	179	191	180	173	—
25	165	161	160	161	165	169	175	182	189	194	201	199	—
26	179	173	175	176	174	181	189	203	206	213	221	220	—
27	165	165	173	182	182	190	190	190	205	212	215	205	—
28	175	176	173	173	177	176	194	207	212	216	213	202	—
29	174	176	177	180	182	186	195	196	205	206	206	198	—
30	185	185	192	189	189	192	200	202	206	210	210	211	—
31	181	183	186	187	189	192	197	201	208	212	218	216	—
Hourly Means.	178.8	180.2	181.9	183.2	183.9	187.2	193.6	199.7	206.1	210.3	212.1	205.8	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	242	222	148	167	147	143	158	167	162	182	168	168	197.7
2	195	188	180	175	174	177	182	181	181	181	181	182	186.8
3	199	194	183	173	176	183	182	183	180	181	182	182	191.0
4	202	194	182	184	185	185	187	185	184	185	188	188	191.8
5	217	211	202	195	189	188	188	187	187	188	190	192	199.3
6	211	206	200	192	190	193	195	192	189	187	190	192	199.3
7	230	175	151	126	134	143	123	116	158	121	143	151	190.6
8	156	155	164	158	152	158	163	162	170	160	183	176	169.3
9	186	184	168	163	165	174	175	173	171	168	168	182	176.5
10	187	182	177	171	172	163	155	143	153	161	166	163	176.3
11	187	178	179	172	165	173	177	173	167	163	168	173	181.7
12	198	197	186	165	168	175	177	175	179	180	176	168	185.2
13	207	201	189	174	173	173	174	175	172	178	177	174	189.1
14	203	196	185	176	175	179	179	181	177	174	181	182	188.5
15	204	199	192	186	189	191	191	190	196	196	195	195	194.9
16	207	202	192	183	179	183	184	184	183	187	180	176	197.9
17	215	211	201	191	187	186	187	184	186	182	186	188	195.8
18	212	207	203	196	192	190	187	189	189	190	190	192	198.7
19	200	190	188	185	182	184	183	180	181	176	178	179	194.3
20	211	201	196	188	184	194	163	148	166	171	173	165	189.7
21	97	81	60	118	144	154	143	116	92	135	138	146	139.0
22	177	173	167	158	155	162	160	158	158	159	163	163	164.7
23	199	186	180	173	172	173	167	170	168	153	158	160	178.3
24	163	163	157	153	149	152	156	160	161	162	158	158	166.3
25	192	186	179	172	169	174	173	167	163	165	167	173	175.0
26	205	211	203	201	192	199	197	165	153	154	142	155	187.0
27	201	171	167	168	166	158	167	174	173	175	173	168	180.6
28	192	200	192	185	176	172	177	178	182	176	172	173	186.2
29	201	197	188	168	173	186	182	181	181	178	177	185	186.6
30	209	201	192	177	170	174	178	179	181	182	182	179	190.6
31	205	205	197	192	189	184	181	180	180	185	187	187	193.4
Hourly Means.	197.1	189.3	179.0	173.7	172.0	174.9	173.9	170.8	171.7	172.1	173.5	174.7	185.2

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY.	1	357	354	352	348	345	338	336	338	329	319	313	337	—
	2	362	352	358	358	360	357	355	351	339	330	328	342	—
	3	358	351	351	354	352	348	345	343	337	332	336	339	—
	4	358	357	355	356	358	355	350	351	348	346	344	349	—
	5	355	354	354	355	355	352	348	339	331	326	322	328	—
	6	348	349	350	351	351	348	343	342	336	332	332	338	—
	7	351	347	347	348	345	338	330	326	329	320	317	327	—
	8	346	340	348	356	355	349	354	363	363	369	374	367	—
	9	357	356	351	353	352	352	362	367	369	367	357	357	—
	10	354	355	356	358	358	357	354	340	329	330	332	328	—
	11	347	342	341	341	349	345	352	355	351	348	356	350	—
	12	356	351	351	352	352	349	343	351	349	345	343	333	—
	13	340	352	350	348	348	345	342	342	343	338	340	337	—
	14	354	353	347	348	350	344	343	350	347	336	331	331	—
	15	353	351	350	350	349	345	343	344	343	337	336	335	—
	16	343	340	338	340	338	336	337	348	340	337	336	336	—
	17	355	353	352	351	350	345	342	340	333	319	315	313	—
	18	352	351	349	348	348	344	344	367	366	360	362	361	—
	19	365	363	362	360	360	361	363	351	355	356	350	355	—
	20	365	362	360	359	359	360	355	351	345	328	321	321	—
	21	350	343	348	340	356	351	356	375	382	401	407	392	—
	22	353	359	358	358	365	363	356	354	348	350	343	343	—
	23	363	363	362	363	364	359	356	364	351	345	344	348	—
	24	373	378	377	377	375	372	368	392	398	394	397	396	—
	25	382	385	384	383	383	380	378	381	381	377	372	366	—
	26	375	379	377	376	379	374	372	374	376	372	366	358	—
	27	380	379	374	368	371	370	371	380	380	377	371	363	—
	28	375	374	377	375	377	374	368	364	366	365	365	363	—
	29	374	372	369	368	368	365	365	362	355	356	352	355	—
	30	362	361	356	358	359	355	353	343	344	337	331	329	—
	31	354	353	351	349	348	345	344	360	361	360	351	347	—
Hourly Means.		358.6	357.4	356.6	356.4	357.4	354.1	352.5	355.1	352.4	348.7	346.6	346.6	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MAY.	1	344	352	392	381	388	394	374	368	370	364	366	365	355.2
	2	344	340	338	344	356	359	358	357	358	358	357	356	350.7
	3	357	353	350	358	366	362	362	361	362	363	360	360	352.5
	4	344	342	346	355	358	360	361	362	362	360	358	357	353.8
	5	334	337	338	347	357	360	359	358	358	356	353	350	346.9
	6	350	350	346	350	355	357	356	356	357	357	355	352	348.4
	7	357	392	398	398	392	387	391	398	363	380	367	360	358.7
	8	366	364	356	358	363	374	365	369	362	363	358	354	359.8
	9	350	348	361	362	366	363	363	366	368	368	363	358	359.8
	10	332	337	341	350	357	362	371	377	370	362	356	352	350.8
	11	337	335	336	352	364	363	359	362	364	367	360	357	351.4
	12	337	344	352	368	365	362	358	358	358	356	356	357	351.9
	13	333	333	339	351	357	358	358	358	358	356	355	355	347.3
	14	332	335	334	343	352	356	357	358	359	361	355	354	347.1
	15	335	331	332	342	345	350	348	350	347	346	346	344	343.8
	16	337	343	346	350	354	362	358	357	358	354	358	360	346.1
	17	316	322	334	351	357	357	355	356	356	357	354	352	343.1
	18	357	357	358	365	369	374	374	373	370	369	369	367	360.6
	19	367	365	362	361	363	369	369	369	368	368	367	366	362.3
	20	325	337	344	354	353	345	348	365	383	363	361	360	351.0
	21	392	402	410	374	365	370	391	398	382	362	359	357	373.5
	22	348	351	354	362	368	371	372	374	372	372	368	364	359.4
	23	356	363	364	374	383	383	384	381	382	388	386	381	367.0
	24	392	386	383	383	392	398	395	392	390	390	389	386	386.4
	25	364	368	369	374	382	388	388	389	389	387	384	380	379.8
	26	362	362	366	372	383	382	380	392	401	401	401	386	377.8
	27	360	365	359	356	369	388	384	382	381	380	381	380	373.7
	28	362	362	364	368	376	384	379	377	376	377	378	376	371.8
	29	353	353	348	356	364	364	367	368	368	368	366	362	362.4
	30	331	331	336	351	368	365	358	357	356	355	354	355	350.2
	31	351	354	354	359	367	374	374	371	368	365	363	362	357.7
Hourly Means.		349.2	352.1	355.2	360.3	366.3	369.1	368.3	369.6	368.3	366.9	364.6	362.1	358.1

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EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°40'.0 + THE NUMBERS IN THE TABLE.

	Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	8.0	8.0	8.0	8.3	8.2	8.2	8.5	7.8	7.3	6.8	6.9	7.5	—
	2	7.6	7.6	7.4	7.7	7.7	7.7	8.1	7.7	7.2	6.7	6.7	7.2	—
	3	7.5	7.5	7.4	7.6	7.7	8.0	8.0	7.5	6.5	6.2	6.2	6.1	—
	4	7.5	7.5	6.9	8.3	8.5	8.0	9.6	6.4	6.1	5.9	5.1	5.8	—
	5	6.4	6.6	7.3	7.3	8.0	8.1	8.1	7.4	7.0	6.2	6.4	6.4	—
	6	7.2	7.6	7.6	7.5	7.7	7.7	8.5	7.8	7.2	6.1	5.9	5.9	—
	7	7.4	8.0	8.1	8.0	7.8	8.0	9.3	9.1	7.6	6.5	5.8	6.4	—
	8	7.4	7.5	7.6	8.2	8.1	8.5	8.5	7.8	6.4	6.2	6.2	6.5	—
	9	7.4	7.5	7.4	7.8	8.0	8.3	8.5	8.0	6.7	6.2	6.6	6.5	—
	10	7.6	7.5	7.7	7.7	8.0	7.8	8.5	8.3	6.6	6.4	6.6	6.9	—
	11	7.7	8.1	8.0	7.8	8.0	8.0	8.2	7.6	6.4	6.4	6.8	8.1	—
	12	7.5	7.5	7.5	7.7	7.7	7.5	8.5	8.3	7.2	6.8	6.7	7.3	—
	13	7.6	7.4	7.4	7.6	7.4	7.7	8.6	8.2	7.3	6.8	7.2	8.1	—
	14	7.3	7.4	7.4	7.7	7.7	7.8	8.6	8.3	7.3	7.4	6.8	6.9	—
	15	7.0	7.4	7.4	7.4	7.4	7.5	8.5	8.5	8.2	7.5	6.8	6.5	—
	16	7.0	7.4	7.4	7.8	7.8	7.7	8.4	7.6	6.6	6.4	6.2	6.4	—
	17	7.7	7.7	7.6	7.8	7.8	7.7	8.0	7.5	6.9	6.8	6.6	6.5	—
	18	7.5	7.7	7.6	8.0	8.1	8.3	8.5	7.8	7.0	6.9	6.7	6.6	—
	19	7.7	8.0	8.1	8.0	8.1	8.2	8.5	8.1	6.7	5.7	5.7	6.5	—
	20	7.7	8.1	8.2	8.1	8.1	8.2	8.4	8.0	6.2	5.3	5.3	6.1	—
	21	7.4	7.6	7.4	7.5	7.6	7.6	8.4	8.2	7.4	6.5	6.1	6.2	—
	22	7.5	7.7	7.4	7.5	7.7	7.6	8.3	7.7	7.7	7.8	7.4	8.0	—
	23	6.7	7.4	7.3	7.3	7.6	7.4	7.7	6.7	6.8	6.6	5.9	6.2	—
	24	6.8	7.3	7.2	8.0	7.4	7.6	8.9	8.4	7.4	6.6	6.2	6.0	—
	25	7.3	7.5	7.5	7.4	7.5	7.7	8.8	8.3	7.6	6.5	6.5	6.9	—
	26	7.5	7.7	7.7	7.7	7.8	7.7	8.2	8.5	8.0	7.8	7.6	8.0	—
	27	7.0	7.3	7.0	7.4	7.4	7.5	8.1	7.7	7.6	7.2	6.9	7.4	—
	28	6.9	7.0	7.3	7.5	7.5	7.8	8.4	8.1	7.2	6.5	6.2	6.2	—
	29	7.2	7.4	7.4	7.3	7.3	7.5	8.1	7.6	6.6	6.2	6.1	6.1	—
	30	7.3	7.4	7.3	7.4	7.4	7.4	7.5	7.3	6.8	6.5	6.9	7.0	—
	Hourly Means.	7.34	7.54	7.52	7.71	7.77	7.82	8.41	7.87	7.05	6.58	6.43	6.74	—

	Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	7.8	7.6	8.0	8.1	8.1	7.7	7.5	7.4	7.4	7.4	7.4	7.5	7.73
	2	7.6	7.6	7.6	7.4	7.5	7.6	7.5	7.4	7.3	7.3	7.4	7.4	7.45
	3	6.8	7.4	7.6	8.2	7.7	7.4	7.4	7.4	6.2	6.5	7.4	7.4	7.23
	4	5.8	5.8	6.1	6.5	6.2	5.9	6.1	6.2	6.2	6.1	6.0	6.2	6.61
	5	6.2	6.5	7.4	7.4	7.6	7.4	7.3	6.9	6.6	6.6	7.2	7.4	7.07
	6	6.5	7.4	7.4	7.4	7.5	7.6	7.4	7.3	7.0	6.8	6.9	7.3	7.22
	7	6.9	8.2	8.6	8.5	7.7	7.6	7.4	7.4	7.0	6.9	7.0	7.4	7.61
	8	6.8	7.8	8.4	7.6	7.7	7.4	7.4	7.4	7.2	7.0	7.4	7.2	7.43
	9	7.4	8.0	7.7	7.6	7.8	7.6	7.4	7.4	7.4	7.4	7.4	7.4	7.48
	10	7.4	7.4	7.3	7.6	7.4	6.6	6.5	6.5	6.4	6.8	6.9	7.3	7.24
	11	8.6	8.5	8.6	8.5	7.7	7.4	7.4	7.4	7.2	7.2	7.2	7.4	7.68
	12	8.0	8.1	8.1	7.5	7.4	7.4	7.4	7.4	7.0	6.9	7.4	7.4	7.51
	13	8.0	8.2	8.1	7.5	7.8	7.8	7.4	7.5	7.4	7.3	7.4	7.4	7.63
	14	7.4	7.5	7.4	7.6	8.1	7.6	6.9	7.4	6.9	6.7	6.8	6 9	7.41
	15	7.4	6.7	7.3	7.3	7.4	7.0	6.7	6.6	6.8	6.8	7.2	7.3	7.28
	16	6.7	7.6	8.3	7.8	7.5	6.9	6.8	7.3	6.9	7.0	7.2	7.4	7.25
	17	6.7	7.4	8.5	8.2	7.8	7.4	7.3	7.4	7.4	7.4	7.4	7.4	7.45
	18	6.8	7.5	7.7	7.8	8.2	7.2	6.9	7.3	7.2	7.2	7.3	7.4	7.47
	19	7.3	7.4	7.8	8.0	8.0	7.3	6.9	6.7	6.9	7.4	7.6	7.6	7.43
	20	6.9	7.0	7.6	7.6	7.5	7.0	7.0	7.2	7.2	7.0	7.4	7.4	7.27
	21	7.0	7.4	7.4	7.6	7.6	6.9	6.9	7.3	7.3	7.0	7.2	7.2	7.28
	22	6.7	7.3	7.4	8.5	7.4	7.8	7.3	7.4	6.7	6.9	6.4	6.8	7.45
	23	6.2	7.3	8.0	8.0	8.4	7.4	7.4	7.3	7.0	6.6	6.8	6.7	7.11
	24	5.7	6.2	7.6	7.6	7.6	7.5	7.4	6.4	6.9	6.7	6.7	6.6	7.11
	25	6.8	6.8	6.9	7.7	8.3	7.5	7.5	7.3	7.3	7.2	7.0	6.9	7.36
	26	7.8	8.5	8.3	7.8	7.2	7.2	7.2	7.3	7.2	7.0	6.6	7.2	7.65
	27	7.8	8.0	8.0	8.3	7.7	7.4	7.3	7.4	6.9	6.9	6.9	6.7	7.41
	28	7.5	7.6	7.6	7.5	7.2	6.7	6.7	6.5	6.5	6.8	6.8	6.8	7.12
	29	6.5	6.7	6.8	7.4	7.3	6.7	6.7	6.7	6.8	6.8	6.9	7.0	6.96
	30	6.7	6.6	6.9	7.3	7.2	6.8	6.8	6.8	6.7	6.5	6.5	6.5	6.98
	Hourly Means.	7.06	7.40	7.68	7.73	7.62	7.26	7.13	7.13	6.96	6.94	7.06	7.15	7.33

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	201	201	204	203	201	206	213	223	232	236	236	223	—
	2	195	196	199	196	199	202	205	212	219	222	227	227	—
	3	197	203	204	201	205	211	233	252	244	241	246	241	—
	4	158	220	200	199	189	169	176	189	203	191	194	173	—
	5	174	175	175	177	170	181	188	194	198	205	198	200	—
	6	181	188	181	188	191	194	194	194	193	189	200	200	—
	7	181	192	183	189	182	189	191	201	211	206	219	213	—
	8	185	185	186	188	196	198	202	199	215	220	220	227	—
	9	181	184	183	184	186	189	194	204	216	224	222	222	—
	10	186	186	183	183	187	192	198	206	213	218	224	230	—
	11	193	194	193	192	192	197	208	207	212	219	221	221	—
	12	193	194	195	196	199	202	211	218	226	230	232	222	—
	13	184	185	186	190	191	192	202	207	212	220	223	222	—
	14	185	189	190	190	194	196	204	213	223	232	238	230	—
	15	192	189	190	194	196	198	200	209	215	223	226	232	—
	16	194	195	195	194	196	198	202	208	202	194	192	192	—
	17	196	197	205	204	215	209	212	208	199	194	193	194	—
	18	202	206	210	219	218	218	213	204	205	206	201	207	—
	19	201	198	194	203	201	205	213	218	218	221	228	231	—
	20	194	189	194	193	194	199	205	212	218	224	226	218	—
	21	196	195	199	198	194	198	201	213	220	225	230	232	—
	22	187	188	192	194	199	208	214	220	224	230	231	223	—
	23	191	184	189	189	194	208	219	226	202	213	217	217	—
	24	180	183	187	183	188	186	194	201	207	205	211	212	—
	25	181	184	185	190	194	197	197	203	208	213	223	213	—
	26	185	185	190	185	190	187	189	194	200	209	213	201	—
	27	175	175	179	179	181	185	193	204	208	216	216	213	—
	28	188	186	187	187	193	199	213	223	234	236	237	223	—
	29	183	185	184	188	189	189	194	199	208	214	223	225	—
	30	179	180	184	184	185	190	198	203	208	219	223	223	—
Hourly Means.		187.3	190.4	190.9	192.0	193.6	196.4	202.5	208.8	213.1	216.5	219.7	216.9	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	216	213	207	199	194	192	194	192	193	193	194	195	206.7
	2	223	218	211	201	198	195	194	192	194	194	194	194	204.5
	3	209	182	185	188	175	161	161	155	169	151	173	175	198.4
	4	182	163	156	149	163	162	158	162	166	158	167	165	175.5
	5	210	193	184	180	176	181	179	179	174	179	170	185	184.4
	6	206	201	185	187	177	170	164	175	166	173	170	175	185.1
	7	184	180	185	175	170	166	172	175	177	181	181	180	186.8
	8	222	201	185	185	182	180	182	183	183	183	181	180	194.5
	9	215	204	194	185	184	185	184	182	181	183	182	185	193.9
	10	218	213	197	194	188	192	197	197	194	190	191	192	198.7
	11	215	208	191	188	184	182	184	189	185	185	190	190	197.5
	12	204	203	199	190	186	185	184	185	183	176	169	180	198.4
	13	217	212	201	192	185	180	180	177	180	184	185	184	195.5
	14	218	208	199	192	182	179	183	182	179	178	183	192	198.3
	15	223	209	204	199	198	194	193	194	194	191	190	191	201.8
	16	190	191	185	185	181	178	175	180	189	192	194	194	191.5
	17	194	194	194	191	189	189	190	191	191	192	192	198	197.1
	18	207	200	196	194	192	194	196	192	190	192	196	201	202.5
	19	219	206	203	202	202	202	205	204	200	190	193	191	206.2
	20	213	209	201	192	194	192	191	192	192	192	191	196	200.9
	21	232	223	215	212	204	204	203	191	181	178	175	175	203.9
	22	230	218	212	194	194	185	187	183	195	174	180	156	200.8
	23	208	206	179	163	158	170	179	175	169	173	171	177	190.7
	24	208	204	192	172	179	180	176	177	180	183	178	180	189.4
	25	208	201	194	193	172	176	175	179	184	182	183	184	192.5
	26	199	192	184	175	177	177	175	180	170	174	179	175	186.9
	27	202	194	185	183	181	175	176	179	182	182	185	185	188.9
	28	214	204	191	185	185	186	184	185	178	178	171	180	197.8
	29	218	206	192	185	180	180	180	180	184	182	180	180	192.8
	30	212	204	194	189	187	185	185	185	188	199	198	202	196.0
Hourly Means.		210.5	202.0	193.3	187.3	183.9	182.6	182.9	183.1	183.0	182.1	182.9	184.6	195.3

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	←
JUNE. 1	350	350	348	348	349	344	339	324	320	316	312	318	—
2	341	341	340	340	340	337	334	313	308	302	300	303	—
3	328	325	323	327	325	322	311	307	314	314	313	307	—
4	338	310	319	322	328	341	334	350	344	353	355	362	—
5	345	341	341	341	346	337	334	325	333	326	328	331	—
6	336	332	335	331	331	328	325	331	332	337	332	325	—
7	343	335	344	344	350	345	343	353	349	348	336	334	—
8	349	349	348	349	344	345	347	346	342	334	322	317	—
9	341	337	337	338	337	337	334	341	341	334	325	317	—
10	342	342	341	341	341	339	334	341	342	331	319	325	—
11	353	351	350	351	352	347	342	353	350	337	328	320	—
12	356	355	355	354	353	351	348	341	338	331	325	332	—
13	348	347	347	346	345	342	337	334	334	332	319	316	—
14	342	340	336	335	335	333	328	328	325	323	325	331	—
15	340	340	339	335	335	333	328	328	330	331	334	331	—
16	347	346	344	346	344	343	339	344	338	340	337	343	—
17	353	351	351	351	352	347	343	374	371	372	370	364	—
18	376	376	376	376	377	373	371	374	373	373	370	363	—
19	373	375	377	371	374	371	367	354	360	360	353	347	—
20	363	365	363	365	365	362	359	359	359	353	345	347	—
21	363	364	362	362	366	364	359	341	342	344	339	334	—
22	351	349	348	348	347	342	336	341	345	341	353	356	—
23	353	355	350	352	350	342	337	341	352	342	339	341	—
24	356	353	350	355	355	353	347	383	387	386	383	375	—
25	383	383	379	376	376	374	376	383	383	384	376	377	—
26	377	375	373	374	375	375	368	364	364	358	352	359	—
27	383	381	377	376	375	372	369	382	381	382	383	386	—
28	389	389	387	388	384	378	371	359	354	353	353	356	—
29	377	376	375	372	372	371	368	370	367	364	357	353	—
30	384	383	383	379	378	374	366	359	356	353	353	359	—
Hourly Means.	356.0	353.9	353.3	353.1	353.4	350.7	346.5	348.1	347.8	345.1	341.2	341.0	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE. 1	323	328	331	337	344	351	347	347	344	343	341	341	337.3
2	309	315	317	333	337	339	337	336	335	333	330	330	327.1
3	323	334	337	341	345	353	347	352	338	346	330	325	328.6
4	350	356	352	358	353	353	355	353	350	354	347	351	345.3
5	332	334	327	328	339	341	341	341	345	331	334	330	335.5
6	326	326	337	342	353	359	364	354	361	355	355	350	339.9
7	345	342	342	356	365	369	364	361	359	357	355	353	349.7
8	322	322	334	342	350	352	348	348	348	345	345	344	341.3
9	317	322	334	339	342	348	351	351	351	350	346	344	338.1
10	341	347	351	353	364	360	356	355	358	358	356	355	345.5
11	323	326	333	354	368	369	369	365	369	366	358	359	349.7
12	344	342	351	355	358	359	359	357	359	360	362	353	349.9
13	323	328	332	342	348	353	351	351	349	345	344	344	339.9
14	331	333	337	337	347	353	348	347	349	347	345	341	337.3
15	332	349	355	354	355	356	356	353	352	352	351	349	342.4
16	347	350	347	349	354	359	359	363	366	362	358	355	349.2
17	362	364	362	368	383	387	383	383	381	381	380	378	367.1
18	357	356	364	367	376	383	381	381	383	379	374	372	373.0
19	339	341	342	351	361	369	364	365	364	367	366	365	361.5
20	352	358	360	365	370	377	374	371	370	367	367	365	362.5
21	330	334	340	342	355	361	359	365	366	366	363	360	353.4
22	355	353	348	355	362	371	369	368	361	367	365	373	354.3
23	342	341	353	362	371	369	365	366	369	365	364	359	353.3
24	383	374	383	395	396	395	397	398	392	389	391	386	377.6
25	377	377	377	375	392	395	394	389	385	384	383	380	381.6
26	364	362	367	383	390	389	389	386	391	388	384	384	374.6
27	386	383	384	389	398	403	400	397	395	394	393	391	385.8
28	358	366	377	385	386	387	386	383	388	387	389	383	376.5
29	358	363	374	378	384	389	386	388	386	385	386	383	374.3
30	365	371	375	383	389	386	381	379	377	369	370	367	372.5
Hourly Means.	343.9	346.6	350.8	357.3	364.5	367.8	366.0	365.1	364.7	363.1	361.1	359.0	354.2

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°40′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	7.3	7.3	7.4	8.2	8.2	8.1	9.8	8.5	7.1	6.9	8.3	7.9	—
	3	8.1	8.3	8.5	9.2	8.2	8.4	9.2	8.1	8.1	8.1	7.9	8.7	—
	3	7.9	8.1	8.3	8.9	9.2	9.1	9.2	8.6	7.8	7.1	7.5	7.1	—
	4	8.1	8.1	8.2	8.9	8.5	9.0	9.0	8.4	7.6	7.5	6.9	6.9	—
	5	7.9	8.1	8.2	8.2	8.4	8.3	8.3	8.1	7.1	6.9	7.0	7.9	—
	6	7.9	8.1	8.1	8.2	8.3	8.5	9.0	7.9	7.4	6.9	6.3	6.6	—
	7	7.5	7.8	7.6	7.9	8.1	8.3	8.5	7.7	6.9	6.7	6.2	6.7	—
	8	7.6	7.9	7.7	7.9	8.1	8.3	8.6	7.8	6.5	6.7	6.7	6.9	—
	9	7.4	7.4	7.7	8.1	7.6	7.7	8.1	7.5	6.7	6.7	6.6	6.7	—
	10	7.3	7.3	7.4	7.8	7.9	8.1	8.3	7.5	6.9	7.3	7.5	8.1	—
	11	7.5	7.5	7.7	7.8	7.6	7.6	8.4	7.7	6.5	6.8	7.5	7.5	—
	12	7.5	7.5	7.6	7.9	7.8	8.1	8.2	8.1	7.5	7.3	7.1	6.9	—
	13	7.5	7.7	7.7	7.8	7.8	7.9	8.3	8.3	6.9	6.5	6.2	6.6	—
	14	7.5	7.7	7.6	7.8	7.8	7.7	8.3	8.1	7.0	6.5	6.0	6.0	—
	15	7.8	7.8	7.7	7.7	7.7	7.6	7.9	7.3	6.5	6.5	6.3	6.9	—
	16	7.7	8.1	8.1	8.1	7.6	7.7	8.1	7.3	6.5	6.0	5.8	6.3	—
	17	7.7	8.1	7.8	8.4	7.5	8.1	8.1	7.9	7.6	7.8	7.5	7.3	—
	18	7.7	7.8	7.9	8.1	8.2	8.4	9.3	8.5	7.8	7.1	6.7	6.5	—
	19	7.3	7.4	7.4	7.8	7.9	8.1	8.1	7.8	7.6	7.3	6.9	6.9	—
	20	7.1	7.5	7.5	7.7	7.6	7.7	7.7	7.1	6.6	6.7	7.1	7.9	—
	21	6.8	7.0	7.3	7.6	8.2	8.7	9.1	9.0	7.6	6.7	6.7	6.8	—
	22	7.7	7.8	7.6	7.8	8.1	7.9	7.9	6.9	6.2	5.8	5.7	6 9	—
	23	7.3	7.4	7.5	7.9	7.6	7.6	7.9	7.7	6.9	6.9	6.9	7.3	—
	24	7.5	7.5	7.6	7.8	7.6	7.6	7.9	7.3	6.9	6.1	5.7	5.8	—
	25	7.1	7.6	7.6	8.1	8.1	8.3	8.9	8.9	8.4	8.1	7.6	8.1	—
	26	7.5	7.7	7.6	7.9	7.9	8.1	8.3	7.5	6.9	6.9	6.7	6.3	—
	27	7.4	7.6	7.5	7.9	8.1	8.2	8.7	8.5	7.4	6.7	5.9	6.1	—
	28	7.5	7.5	7.5	7.7	7.8	7.8	8.6	8.3	7.5	6.9	5.8	5.9	—
	29	7.8	7.5	7.8	7.7	8.4	9.2	9.3	9.2	7.7	6.8	6.3	7.7	—
	30	7.4	7.4	7.6	7.6	7.9	8.2	8.6	8.1	7.3	7.1	7.3	6.9	—
	31	7.5	7.4	7.5	7.7	7.5	7.7	8.1	8.4	7.5	6.8	6.8	7.3	—
Hourly Means.		7.54	7.67	7.72	8.00	7.97	8.13	8.51	8.00	7.19	6.91	6.75	7.01	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	7.6	7.6	8.1	8.1	7.8	7.6	7.8	6.5	7.9	7.6	7.8	8.1	7.81
	2	8.3	8.6	8.1	8.1	7.7	7.5	7.5	7.1	7.5	7.6	7.5	7.9	8.09
	3	6.9	7.5	7.8	8.2	8.3	7.6	7.6	7.6	7.6	7.6	7.4	8.1	7.96
	4	6.8	6.9	7.6	7.6	7.7	7.6	7.4	7.3	7.6	7.6	7.5	7.5	7.76
	5	7.8	7.9	8.1	8.5	8.5	8.1	7.5	7.7	7.6	7.6	7.7	7.9	7.89
	6	6.9	7.5	7.8	7.6	7.7	7.4	7.1	7.0	7.0	7.1	7.1	7.4	7.53
	7	7.5	8.3	8.4	8.7	8.2	7.6	7.3	7.0	6.9	6.9	7.1	7.1	7.54
	8	6.9	8.1	7.8	7.3	7.7	6.9	6.9	7.0	7.1	6.9	7.1	7.1	7.40
	9	6.8	7.6	8.5	8.3	7.9	7.6	7.5	7.3	7.1	6.9	7.0	7.0	7.40
	10	7.7	8.1	7.3	7.7	7.7	7.7	7.5	7.5	7.4	7.4	7.3	7.4	7.59
	11	8.2	8.4	8.6	8.1	7.9	7.6	7.5	7.5	7.4	7.5	7.4	7.5	7.65
	12	6.8	6.9	7.5	8.5	8.2	7.3	7.5	7.6	7.5	7.1	7.1	7.4	7.54
	13	6.8	6.9	6.9	7.4	7.6	7.5	7.5	7.6	7.5	7.4	7.3	7.5	7.38
	14	6.8	7.4	7.8	7.8	7.3	7.1	7.1	7.3	7.1	7.1	7.1	7.5	7.31
	15	7.6	8.1	8.2	7.9	7.7	7.1	7.3	7.1	7.1	7.3	7.3	7.5	7.41
	16	6.9	7.7	8.1	8.3	7.8	7.1	7.0	7.1	7.1	7.5	7.3	7.3	7.35
	17	8.1	8.2	7.7	7.5	7.7	7.6	7.7	7.1	7.1	7.3	7.4	7.5	7.70
	18	6.3	6.7	7.3	7.4	7.4	7.3	7.4	7.1	7.0	6.9	6.9	7.1	7.45
	19	7.0	7.8	7.9	8.1	8.2	7.5	7.4	7.4	6.9	6.9	6.9	7.0	7.48
	20	7.0	6.6	6.5	7.6	8.2	7.0	7.0	7.3	6.9	6.9	6.9	7.4	7.23
	21	6.9	7.9	7.9	8.4	8.3	7.8	7.5	7.1	7.4	7.0	7.0	7.1	7.58
	22	7.5	8.1	8.2	8.6	8.4	7.7	6.9	7.1	6.3	6.9	6.9	6.7	7.32
	23	8.1	9.2	9.1	8.1	7.4	7.1	7.5	7.5	6.8	7.4	6.9	6.9	7.54
	24	6.9	7.5	8.6	8.4	8.1	7.4	7.0	7.3	7.1	7.0	7.0	7.4	7.29
	25	7.9	7.9	8.5	8.1	7.9	7.5	7.3	7.1	7.1	7.1	7.1	7.3	7.82
	26	6.2	6.8	7.3	8.1	8.3	7.8	7.5	7.4	7.1	7.1	7.1	7.4	7.39
	27	7.1	7.9	8.2	8.2	7.9	7.6	7.5	7.1	7.3	7.3	7.1	7.3	7.52
	28	6.3	6.8	7.3	7.9	7.6	7.3	7.4	6.9	6.9	7.0	6.9	7.3	7.27
	29	8.4	8.6	8.3	8.2	7.6	7.1	7.0	7.0	6.9	7.3	7.0	7.3	7.75
	30	6.9	6.3	6.9	7.3	7.7	7.1	7.3	7.1	7.1	7.1	7.1	7.3	7.36
	31	8.1	8.2	8.4	8.4	8.3	7.3	7.1	7.3	7.1	7.1	7.1	7.3	7.58
Hourly Means.		7.26	7.68	7.89	8.01	7.89	7.43	7.34	7.23	7.17	7.21	7.17	7.37	7.54

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY. 1	205	211	217	195	200	196	213	211	216	228	224	212	—
2	182	176	178	170	196	186	196	208	215	219	219	219	—
3	182	188	189	189	192	197	194	197	195	209	214	219	—
4	184	186	195	186	189	191	196	205	214	219	219	218	—
5	196	192	193	194	199	201	208	209	214	214	223	223	—
6	187	188	193	191	193	199	210	214	221	222	222	222	—
7	194	195	194	196	198	204	210	216	224	232	234	229	—
8	191	194	201	200	200	202	218	228	221	224	229	229	—
9	176	182	179	184	189	202	200	210	218	224	223	207	—
10	194	194	191	191	195	199	205	217	220	233	232	224	—
11	197	196	197	201	205	208	214	224	234	242	247	238	—
12	204	205	206	206	206	211	222	234	243	244	241	234	—
13	201	200	201	200	205	208	214	223	231	238	243	243	—
14	203	202	202	201	206	209	213	219	230	242	248	243	—
15	197	198	200	201	201	203	205	214	221	228	236	233	—
16	205	205	197	197	202	197	208	214	224	229	233	235	—
17	183	185	188	202	201	202	213	214	219	224	229	207	—
18	186	187	186	195	185	186	194	206	217	224	228	220	—
19	191	193	191	191	194	197	205	211	219	229	222	216	—
20	186	187	188	191	190	191	196	198	206	219	224	210	—
21	188	191	182	183	186	181	189	197	206	209	221	219	—
22	185	186	186	186	186	186	191	200	206	207	212	212	—
23	180	181	180	180	181	190	194	198	206	206	201	196	—
24	171	176	178	185	188	191	197	204	207	211	221	222	—
25	189	184	185	187	188	198	200	210	216	223	219	211	—
26	188	190	191	192	193	198	205	210	218	226	225	219	—
27	188	188	190	187	191	195	202	213	224	229	229	214	—
28	190	191	192	188	188	198	210	217	226	233	236	226	—
29	182	186	186	195	195	205	209	208	210	216	218	201	—
30	183	182	183	186	188	192	199	206	218	214	216	215	—
31	181	186	189	190	191	192	195	203	215	224	229	228	—
Hourly Means.	189.3	190.5	191.2	191.6	194.2	197.3	204.0	210.9	217.9	223.9	226.4	220.8	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY. 1	211	209	205	195	192	181	143	158	138	172	181	173	195.3
2	209	200	205	196	191	187	179	176	181	191	178	180	192.8
3	206	204	197	193	192	188	181	181	180	181	185	186	193.3
4	210	206	198	192	182	181	181	185	186	187	188	187	195.2
5	216	205	197	191	183	184	186	189	186	187	186	186	198.4
6	214	208	208	202	199	198	198	198	195	194	192	192	202.5
7	225	218	202	193	194	196	199	197	202	201	191	192	205.7
8	214	191	193	197	191	186	185	187	182	177	181	179	200.0
9	200	191	183	168	180	185	186	181	185	181	186	190	192.1
10	214	212	207	205	200	194	192	193	192	194	195	198	203.8
11	226	212	208	205	201	202	201	201	203	204	202	204	211.3
12	227	223	206	201	199	200	199	197	195	197	198	200	212.4
13	242	225	207	199	196	199	199	199	198	200	202	203	211.5
14	229	219	210	208	209	205	201	197	195	196	193	198	211.6
15	223	223	219	209	205	204	198	205	199	201	203	203	209.5
16	226	214	201	201	199	200	199	195	191	179	176	174	204.2
17	181	172	172	185	179	166	171	182	184	182	182	183	191.9
18	216	215	204	186	182	185	184	186	186	186	196	198	197.4
19	206	195	178	177	178	182	173	179	190	186	186	185	194.8
20	203	214	200	195	189	203	196	191	184	186	191	186	196.8
21	210	199	188	172	166	162	180	180	172	176	177	180	188.1
22	210	162	149	150	162	161	172	158	184	177	169	176	182.2
23	194	187	169	181	189	186	183	173	190	171	167	168	185.5
24	215	198	172	171	173	179	185	183	184	186	181	183	190.0
25	205	192	181	178	181	182	186	187	188	186	185	185	193.6
26	214	204	195	186	181	182	181	182	183	186	186	188	196.8
27	210	205	200	197	192	190	188	186	187	187	188	190	198.8
28	217	208	197	203	214	191	157	184	185	168	174	182	199.0
29	198	191	177	181	176	167	186	183	182	168	174	180	190.6
30	203	199	196	186	184	183	181	181	181	178	180	181	192.3
31	227	215	202	191	186	184	185	184	183	184	183	186	197.2
Hourly Means.	212.6	203.7	194.4	190.1	188.5	186.9	185.0	185.7	186.2	185.5	185.7	187.0	197.9

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

JULY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	361	358	351	366	363	364	352	366	362	350	347	356	—
2	366	372	372	377	363	368	364	362	357	358	356	353	—
3	371	370	367	367	367	365	367	371	375	363	359	351	—
4	373	373	367	375	375	373	373	375	374	374	374	378	—
5	371	375	372	373	372	371	369	370	364	364	356	358	—
6	375	375	372	374	375	370	365	362	354	355	356	354	—
7	370	371	370	369	369	365	362	361	355	348	343	342	—
8	372	368	364	364	366	362	355	352	360	362	357	353	—
9	373	368	369	364	364	357	360	368	363	353	354	362	—
10	370	370	372	373	370	367	363	356	349	340	343	354	—
11	369	368	366	363	362	359	353	347	342	330	327	339	—
12	365	363	361	360	361	357	351	351	345	346	349	356	—
13	370	370	369	369	366	363	358	364	364	365	367	368	—
14	378	378	376	376	373	370	365	364	362	354	356	356	—
15	378	377	375	374	374	373	372	365	360	352	348	342	—
16	370	369	373	374	371	370	368	374	369	363	356	347	—
17	375	375	373	367	368	366	363	369	365	364	373	390	—
18	378	377	379	373	381	376	373	365	364	362	361	363	—
19	368	368	370	370	368	365	361	357	348	343	356	367	—
20	372	370	372	372	373	374	369	361	356	345	344	354	—
21	368	366	372	368	369	370	361	364	364	364	353	353	—
22	372	373	372	373	374	375	370	369	369	373	363	362	—
23	375	375	375	375	375	370	365	361	350	352	360	364	—
24	380	375	372	369	369	369	366	353	351	358	353	351	—
25	365	367	365	364	365	357	353	336	337	345	356	358	—
26	359	357	356	354	354	351	349	356	346	340	339	342	—
27	363	363	361	362	359	356	349	351	350	352	354	348	—
28	365	363	362	364	363	357	351	353	354	353	348	352	—
29	368	367	364	362	359	352	350	353	356	357	353	345	—
30	365	365	365	362	362	357	356	356	354	355	357	359	—
31	368	365	364	363	363	362	359	358	356	351	347	347	—
Hourly Means.	370.1	369.4	368.3	368.3	367.5	364.9	361.0	360.3	357.3	354.5	353.7	355.6	—

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	357	350	353	363	374	387	404	394	399	378	370	371	366.5
2	363	364	367	375	382	382	384	383	376	370	375	375	369.3
3	358	359	367	370	376	381	383	382	381	380	375	373	369.9
4	381	375	374	376	379	387	387	384	381	378	378	375	376.6
5	364	375	375	374	381	388	385	381	380	379	378	377	373.0
6	361	364	365	370	375	380	379	376	377	376	375	374	369.1
7	346	350	360	369	374	377	375	376	372	370	373	373	364.2
8	361	368	365	357	365	375	376	375	376	377	373	370	365.5
9	357	356	363	379	376	378	379	382	381	381	378	375	368.3
10	361	363	369	366	379	384	384	382	381	378	376	372	367.6
11	350	358	364	371	373	374	373	372	370	369	369	367	359.8
12	363	362	359	366	375	381	379	381	381	378	375	373	364.1
13	367	375	387	386	386	387	386	386	386	384	381	381	374.4
14	359	364	378	381	381	383	384	384	384	383	382	378	372.9
15	348	351	361	371	375	377	379	373	373	372	372	370	367.2
16	351	351	360	361	372	377	376	377	378	383	383	381	368.9
17	405	405	400	387	389	396	393	381	379	379	379	378	380.0
18	362	362	363	369	378	381	378	377	375	373	367	365	370.9
19	365	370	375	372	375	381	384	381	373	375	372	372	368.2
20	367	368	372	357	364	365	368	375	376	373	369	368	366.0
21	352	357	369	381	389	397	381	380	384	381	378	375	370.7
22	367	386	394	387	386	390	384	393	381	381	385	381	377.5
23	363	367	381	378	376	381	384	389	379	387	388	386	373.2
24	353	364	379	375	379	377	374	373	374	372	373	368	367.8
25	363	365	364	370	369	368	365	364	363	364	363	362	360.3
26	345	351	354	356	364	374	372	371	369	368	366	364	356.5
27	346	350	356	363	367	372	372	372	372	370	368	367	360.1
28	363	372	372	364	361	374	395	375	373	381	376	368	365.0
29	346	353	363	363	373	380	368	369	368	376	371	368	361.8
30	368	363	360	364	369	376	376	374	372	372	370	369	364.4
31	347	356	361	369	375	380	375	373	372	371	370	368	363.3
Hourly Means.	360.0	363.7	368.7	370.6	375.4	380.3	380.1	378.5	377.0	376.1	374.5	372.4	367.8

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS — 1°40'.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	7.4	7.6	7.9	8.0	8.2	8.2	8.5	7.1	6.5	5.7	5.4	5.6	—
	2	7.6	7.7	7.8	7.9	7.7	8.0	8.1	7.2	6.1	5.3	6.4	7.4	—
	3	7.4	7.8	7.7	7.9	7.8	8.1	9.3	8.2	7.7	7.2	7.1	7.0	—
	4	7.1	7.0	7.9	7.3	7.9	7.8	8.6	7.9	6.6	6.1	5.5	6.2	—
	5	6.6	6.2	7.0	7.1	8.0	8.1	8.5	7.7	7.0	6.9	7.0	6.0	—
	6	7.4	7.6	7.7	8.0	7.9	8.0	8.3	8.0	6.9	6.6	7.0	7.1	—
	7	7.2	7.3	7.7	8.1	8.1	8.2	8.6	8.2	7.6	6.8	6.2	6.2	—
	8	7.2	7.3	7.4	7.4	7.7	8.2	8.6	7.8	7.1	6.4	6.6	6.8	—
	9	7.3	7.4	7.6	7.7	7.8	8.2	9.3	8.6	7.7	7.1	6.5	6.2	—
	10	7.3	7.4	7.4	7.7	7.8	8.2	8.6	8.3	7.4	7.1	7.1	7.2	—
	11	7.4	7.7	7.8	7.7	7.9	8.2	9.0	8.5	7.7	6.8	6.4	6.2	—
	12	7.3	7.3	7.4	7.6	7.9	8.0	8.9	8.1	6.8	6.1	5.4	5.5	—
	13	7.3	7.6	8.0	7.9	8.1	8.2	8.1	7.1	6.5	6.3	6.5	6.6	—
	14	7.3	7.3	7.4	7.6	7.6	7.7	7.8	7.3	6.6	6.0	5.8	6.2	—
	15	7.6	7.6	7.6	7.4	7.7	7.9	8.7	7.9	7.1	6.9	6.8	7.7	—
	16	7.4	7.4	7.6	7.4	7.7	7.8	8.3	8.0	7.2	6.8	7.6	7.1	—
	17	6.5	7.3	7.4	7.4	7.2	7.8	8.2	8.0	7.2	7.2	6.9	7.1	—
	18	6.6	7.1	7.6	7.4	7.9	7.9	8.3	7.1	6.1	5.7	5.7	6.0	—
	19	7.2	7.2	7.1	7.7	7.7	8.0	8.9	8.2	7.4	7.2	6.9	7.1	—
	20	7.4	7.1	7.1	7.4	7.4	7.6	7.7	7.1	6.4	6.3	6.9	7.1	—
	21	7.2	7.2	7.3	7.4	7.7	8.1	8.2	7.1	6.6	6.3	5.7	5.2	—
	22	7.1	7.2	7.2	7.2	7.7	8.2	9.1	9.0	7.8	7.1	6.2	6.1	—
	23	7.1	7.1	7.2	7.3	7.8	7.7	7.4	6.8	6.0	6.1	6.4	6.5	—
	24	7.1	7.1	7.1	7.2	7.1	7.4	7.4	7.0	6.6	6.8	7.1	7.2	—
	25	7.1	7.2	7.2	7.2	7.7	7.9	8.3	7.7	6.5	5.8	6.1	6.6	—
	26	7.2	7.3	7.3	7.3	7.1	7.1	7.6	7.1	6.5	6.4	6.6	7.2	—
	27	7.3	7.4	7.4	7.4	7.4	7.4	7.8	7.0	5.8	5.6	5.6	5.7	—
	28	7.0	7.1	7.1	7.1	7.1	7.3	8.2	7.6	6.5	6.2	6.6	6.8	—
	29	7.1	7.3	7.3	7.3	7.3	7.3	7.7	7.0	6.3	6.3	6.4	6.8	—
	30	7.3	7.3	7.3	7.3	7.4	7.8	8.2	7.4	6.8	6.4	6.1	6.2	—
	31	7.1	7.3	7.4	7.3	7.6	8.2	8.2	7.4	6.5	6.0	5.6	5.5	—
Hourly Means.		7.20	7.30	7.45	7.50	7.67	7.89	8.34	7.66	6.82	6.44	6.39	6.52	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	5.7	6.0	7.1	7.6	7.4	7.1	7.2	7.1	7.1	7.1	7.1	7.4	7.08
	2	7.9	8.3	8.3	8.2	7.9	7.2	7.1	7.0	6.9	6.9	7.1	7.1	7.38
	3	7.2	7.2	8.2	8.8	8.3	8.7	7.2	7.8	7.1	7.1	7.2	6.9	7.70
	4	6.6	7.0	7.7	8.8	9.1	8.0	7.6	7.4	7.1	7.1	7.0	6.9	7.34
	5	6.6	7.3	8.5	8.6	8.0	7.3	7.4	7.3	7.1	7.1	7.2	7.3	7.33
	6	7.1	7.1	7.6	8.1	7.9	7.6	7.1	7.2	7.1	7.1	7.2	7.2	7.45
	7	6.4	6.8	7.8	8.3	8.2	7.3	7.3	7.4	7.1	7.1	7.2	7.2	7.43
	8	7.1	7.3	7.4	8.0	7.9	7.8	7.6	7.3	7.2	7.1	7.1	7.2	7.40
	9	6.3	6.8	7.6	8.5	8.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.50
	10	7.3	7.4	7.4	7.9	7.6	7.1	7.1	7.1	7.1	7.1	7.2	7.3	7.46
	11	6.5	7.0	8.3	8.5	7.9	7.4	7.1	7.1	7.1	7.2	7.1	7.1	7.48
	12	6.5	7.8	8.1	8.5	8.6	7.4	7.4	7.6	7.1	7.1	7.1	7.1	7.36
	13	7.1	7.6	8.3	8.8	8.2	7.2	7.1	7.1	7.1	7.1	7.0	7.2	7.42
	14	7.0	7.8	8.3	8.3	8.1	7.6	7.2	7.1	7.1	7.2	7.2	7.4	7.29
	15	8.3	8.5	8.8	8.7	8.6	7.8	7.2	7.1	7.0	7.0	7.0	7.3	7.68
	16	7.9	9.1	10.2	10.9	10.1	8.2	9.5	7.9	7.6	7.1	7.1	7.0	8.04
	17	7.0	8.0	8.2	8.9	8.1	7.8	7.8	7.0	7.1	7.0	6.6	7.1	7.45
	18	6.2	7.0	8.0	8.2	8.7	7.9	7.3	7.9	7.4	6.9	6.6	7.1	7.19
	19	7.4	7.6	8.1	8.5	8.8	7.3	7.4	7.1	7.2	7.1	7.1	7.1	7.55
	20	7.1	7.4	8.5	8.8	8.8	7.4	7.4	7.3	7.1	7.1	7.1	7.1	7.36
	21	5.7	6.5	7.7	8.6	8.8	7.3	7.6	7.3	7.1	7.1	7.0	7.1	7.16
	22	6.5	7.1	6.6	7.9	7.9	7.6	7.3	7.1	7.1	7.1	7.1	7.1	7.35
	23	6.4	6.8	7.7	8.5	8.2	7.6	7.1	7.1	7.1	7.1	7.0	7.1	7.13
	24	7.2	7.2	7.7	8.1	8.1	7.6	7.1	7.1	7.1	7.1	7.1	7.1	7.23
	25	6.9	6.5	7.1	7.3	7.4	7.3	7.1	7.2	7.1	7.1	7.1	7.2	7.11
	26	7.0	7.1	7.3	7.2	7.2	7.0	7.0	7.1	7.1	7.1	7.1	7.2	7.09
	27	6.0	6.9	7.8	7.8	8.0	7.8	7.7	7.3	7.0	7.0	7.0	6.9	7.04
	28	6.6	7.1	7.3	7.3	7.3	7.2	7.1	7.1	7.1	7.1	7.0	7.1	7.08
	29	7.4	7.9	8.2	8.5	8.0	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.25
	30	7.0	7.1	7.7	8.2	7.8	7.2	7.0	7.1	7.0	7.0	7.0	7.1	7.20
	31	6.0	7.1	8.1	9.0	8.6	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.20
Hourly Means.		6.84	7.30	7.92	8.36	8.18	7.50	7.34	7.25	7.12	7.09	7.07	7.14	7.35

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

AUGUST. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	197	200	197	196	196	200	211	224	223	228	226	219	—
2	192	193	194	193	195	199	207	214	222	231	236	234	—
3	194	198	207	208	217	210	214	227	228	234	237	228	—
4	176	198	185	182	177	181	197	184	187	195	181	176	—
5	171	200	190	191	189	192	200	214	219	227	222	219	—
6	185	188	190	190	194	195	202	211	220	223	218	214	—
7	192	193	188	190	193	195	204	209	214	219	221	213	—
8	189	190	193	194	196	200	209	221	228	233	230	221	—
9	189	190	190	190	190	196	207	215	223	228	229	221	—
10	190	191	194	195	197	202	215	224	226	226	226	223	—
11	198	198	196	197	200	202	209	217	223	227	219	211	—
12	202	204	201	210	193	188	204	209	220	221	226	238	—
13	175	179	180	184	183	188	189	199	204	214	213	211	—
14	183	184	185	188	190	192	200	204	213	220	213	209	—
15	188	190	190	191	194	195	206	220	224	227	224	219	—
16	192	195	202	209	211	217	224	248	264	264	225	210	—
17	170	166	173	171	186	185	190	194	192	185	191	188	—
18	166	172	176	176	170	168	170	188	196	204	198	185	—
19	164	163	173	171	173	175	185	197	206	211	209	212	—
20	175	175	177	181	186	183	185	196	206	212	208	203	—
21	173	174	176	178	185	187	190	190	198	196	199	197	—
22	178	180	181	183	183	188	198	209	216	223	221	216	—
23	174	173	180	178	182	184	188	200	205	213	208	206	—
24	181	181	179	184	183	189	198	207	214	218	222	219	—
25	183	184	190	190	188	195	202	217	236	240	240	234	—
26	192	195	198	201	204	207	214	232	242	245	247	243	—
27	188	190	191	192	198	201	207	214	225	233	241	238	—
28	180	176	190	190	188	188	197	208	215	230	238	231	—
29	191	192	192	189	190	193	198	204	212	219	220	214	—
30	192	195	197	199	199	205	217	227	235	239	238	229	—
31	210	206	204	204	209	204	231	227	219	225	239	231	—
Hourly Means.	184.8	187.5	189.0	190.2	191.6	193.7	202.2	211.3	*217.9	222.9	221.5	216.5	—

AUGUST. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	210	211	201	195	194	193	190	190	190	187	190	190	202.4
2	225	218	214	210	204	203	201	207	209	206	200	207	208.9
3	215	191	189	193	204	176	157	174	185	158	160	174	199.1
4	162	152	162	148	144	157	169	162	181	171	157	171	173.1
5	213	204	199	192	190	189	185	186	185	189	187	187	197.5
6	209	203	196	191	190	195	192	189	190	189	186	193	198.0
7	207	201	198	195	189	186	188	187	186	187	186	190	197.1
8	210	194	196	191	187	185	181	185	185	184	186	188	199.0
9	212	203	195	185	182	187	185	186	187	188	187	189	198.1
10	221	216	215	212	205	204	202	200	199	195	195	197	207.1
11	211	207	204	197	195	195	194	196	201	201	201	205	204.3
12	226	185	166	150	152	168	170	148	171	163	171	174	190.0
13	206	199	192	187	185	185	184	182	179	181	181	181	190.0
14	205	201	195	190	189	190	190	187	186	186	185	186	194.6
15	214	205	193	187	187	190	195	195	194	192	194	191	200.2
16	205	194	144	133	114	114	122	136	144	150	152	170	185.0
17	196	185	168	165	139	167	152	185	166	165	171	162	175.5
18	183	181	171	163	156	167	163	143	157	162	153	163	172.1
19	197	189	172	162	163	156	171	172	173	172	172	181	180.0
20	194	176	168	162	160	162	166	163	166	165	169	171	179.5
21	196	192	185	181	175	170	171	172	173	176	179	178	183.0
22	199	182	179	172	168	173	176	175	174	178	176	172	187.5
23	200	194	189	181	176	177	179	179	179	179	179	180	186.8
24	210	200	195	187	183	184	184	186	187	181	181	181	193.1
25	224	216	205	197	190	184	190	187	185	189	190	190	201.9
26	233	227	218	209	201	195	193	188	191	190	190	188	210.1
27	232	228	216	200	190	181	174	172	175	177	175	180	200.8
28	222	219	209	198	195	189	190	190	190	190	189	189	200.0
29	206	198	192	189	188	190	190	189	190	190	190	190	196.5
30	222	210	204	195	195	195	194	195	196	196	196	193	206.8
31	227	210	185	155	154	164	159	149	166	168	166	169	195.0
Hourly Means.	209.4	199.7	190.8	183.0	178.8	179.7	179.3	179.2	181.9	180.8	180.5	183.2	194.0

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	374	373	374	374	374	370	368	364	372	371	380	388	—
	2	375	375	375	376	375	372	370	366	364	353	341	347	—
	3	374	374	368	368	363	367	363	348	348	346	349	358	—
	4	367	355	361	368	370	366	357	381	383	380	381	378	—
	5	378	366	365	368	368	365	359	358	357	360	367	370	—
	6	381	380	379	379	379	379	376	389	383	383	386	388	—
	7	391	392	394	394	393	391	385	368	364	358	357	364	-
	8	381	380	377	377	375	372	371	376	375	372	377	376	—
	9	385	384	384	384	385	379	374	358	358	358	363	369	—
	10	372	371	369	369	367	361	358	356	353	351	351	355	—
	11	369	369	368	368	367	363	359	376	375	370	374	377	—
	12	383	382	382	378	388	388	376	382	383	384	386	375	—
	13	390	388	386	385	385	383	383	394	388	379	377	382	—
	14	396	395	396	394	394	391	388	392	390	391	398	404	—
	15	396	395	395	394	393	390	385	390	394	396	404	401	—
	16	395	394	390	387	387	382	379	369	363	359	386	387	—
	17	389	394	391	394	387	386	385	388	394	397	396	394	—
	18	397	393	392	393	397	399	400	385	382	375	373	375	—
	19	389	390	385	388	387	385	379	384	380	378	390	394	
	20	394	394	392	392	387	389	389	382	379	373	373	380	—
	21	390	388	386	385	383	382	385	362	357	360	358	360	—
	22	371	370	368	366	368	363	357	382	387	392	401	407	—
	23	397	396	391	392	389	390	388	388	384	375	375	381	—
	24	394	393	393	390	390	386	382	371	365	359	360	370	
	25	386	385	381	380	381	376	373	368	359	356	358	362	-
	26	380	378	376	375	374	371	369	370	367	366	368	375	-
	27	388	386	385	385	381	377	376	386	383	377	373	380	—
	28	394	396	388	388	390	386	382	371	373	363	355	368	
	29	382	381	381	383	382	379	376	378	372	363	363	366	—
	30	386	385	385	385	385	380	379	385	388	390	390	390	—
	31	379	382	386	387	383	383	375	384	394	388	375	374	—
Hourly Means.		384.6	383.4	382.0	382.1	381.5	379.1	375.7	375.8	374.6	371.7	373.7	377.3	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	388	380	377	382	386	386	385	382	382	381	377	376	377.7
	2	355	365	369	370	373	380	379	375	371	370	373	371	368.3
	3	361	364	357	360	361	382	395	377	371	383	382	370	366.2
	4	382	381	370	371	380	383	380	384	376	380	388	378	375.0
	5	370	369	369	371	380	386	389	391	390	385	383	382	372.8
	6	397	397	398	393	394	401	400	400	401	400	399	394	389.8
	7	351	363	366	370	382	390	391	390	389	388	386	383	379.6
	8	379	399	395	390	391	396	399	396	395	394	390	388	384.2
	9	369	364	363	368	379	380	382	381	380	379	377	375	374.1
	10	361	372	371	369	370	373	374	374	375	375	374	372	366.4
	11	375	375	372	376	388	391	391	389	387	387	386	383	376.5
	12	370	392	394	398	398	394	392	403	392	394	392	392	387.4
	13	381	380	380	383	394	401	401	401	403	401	400	399	389.3
	14	395	394	396	394	397	400	399	399	400	399	398	397	395.7
	15	397	397	400	404	404	404	400	399	397	398	396	396	396.9
	16	389	391	416	419	433	432	419	413	404	401	400	392	395.3
	17	393	396	405	405	419	403	410	394	399	400	397	401	396.5
	18	369	368	375	382	390	392	397	409	398	394	399	390	388.5
	19	407	407	401	400	402	413	403	402	401	401	399	393	394.1
	20	385	386	382	389	394	400	397	401	401	400	394	392	389.4
	21	358	355	351	352	363	376	377	377	377	376	373	372	371.0
	22	416	423	415	407	405	404	401	401	401	399	399	400	391.8
	23	388	387	387	385	391	399	399	398	398	398	397	396	390.4
	24	382	391	387	386	387	390	390	389	389	391	391	389	384.0
	25	379	388	387	388	388	388	388	388	389	386	383	382	379.1
	26	383	386	386	385	390	394	393	394	391	391	389	390	380.9
	27	383	379	384	395	402	407	408	407	402	400	399	395	389.1
	28	379	379	383	385	388	390	388	387	386	385	385	383	382.2
	29	373	377	379	383	388	390	392	391	388	388	388	388	380.5
	30	391	394	400	401	398	399	396	394	391	390	388	390	390.0
	31	376	377	388	401	407	405	405	410	400	396	396	394	389.4
Hourly Means.		380.4	383.1	384.0	385.9	391.0	394.5	394.2	393.4	391.1	390.6	389.6	387.2	383.6

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°40'0 + THE NUMBERS IN THE TABLE.

SEPTEMBER.	Mean Batavia Time. 1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	6.9	7.1	7.1	7.1	7.4	7.9	8.0	7.1	5.9	5.8	5.5	6.3	—
2	6.8	6.8	6.7	6.8	6.8	7.4	7.7	6.4	5.2	5.5	5.4	5.8	—
3	6.6	6.8	6.7	6.6	6.7	6.7	7.4	6.3	5.1	4.9	5.4	5.5	—
4	6.7	6.7	6.8	6.9	7.1	7.3	7.6	6.7	5.9	5.7	5.6	5.6	—
5	6.7	6.8	6.8	6.8	6.8	7.1	7.2	6.3	5.5	5.5	5.8	6.6	—
6	6.7	6.8	6.7	6.8	6.9	7.5	7.9	6.4	5.0	4.1	4.0	4.0	—
7	6.7	6.7	6.7	6.8	6.8	7.4	7.5	6.3	4.9	4.6	4.3	4.4	—
8	6.8	6.8	7.1	6.9	6.8	7.5	7.7	5.2	4.0	3.5	4.0	5.1	—
9	6.7	6.8	7.1	7.2	7.4	8.0	7.3	6.3	5.1	5.4	5.9	6.7	—
10	6.8	6.9	6.9	7.1	6.9	7.4	7.5	7.1	6.4	6.4	5.7	5.7	—
11	6.9	6.9	6.9	7.1	7.1	7.5	7.3	6.7	5.5	5.1	5.0	5.1	—
12	7.1	7.1	6.9	6.9	6.9	7.2	7.3	6.0	4.7	4.7	5.5	6.0	—
13	6.8	6.6	6.6	6.8	6.8	7.2	7.1	6.8	5.4	5.0	5.2	6.3	—
14	6.4	6.6	6.9	6.9	6.7	6.7	7.5	6.2	5.2	4.7	4.9	5.0	—
15	6.4	6.3	6.6	6.6	6.6	6.8	6.7	6.8	6.7	6.2	5.7	5.8	—
16	6.5	6.8	6.7	6.9	6.8	7.2	7.1	6.5	5.7	5.1	5.1	5.6	—
17	6.5	6.7	6.7	6.7	6.8	7.2	8.0	6.8	5.7	5.1	4.9	5.6	—
18	6.6	6.6	6.6	6.5	6.5	7.3	7.3	6.0	5.2	5.6	5.1	5.5	—
19	6.2	6.0	6.0	5.9	6.2	6.9	6.8	5.7	4.1	4.6	5.1	5.7	—
20	6.3	5.9	5.9	6.2	6.2	6.6	7.7	6.8	5.9	5.5	5.2	5.8	—
21	6.6	7.1	6.8	6.8	6.8	7.4	6.8	5.8	5.1	5.0	5.4	5.8	—
22	6.7	6.8	6.9	7.1	7.2	7.4	6.9	5.9	4.9	4.6	5.1	6.3	—
23	6.7	6.8	6.8	6.9	6.8	7.6	7.7	6.8	5.5	5.0	5.6	6.3	—
24	6.8	6.8	6.8	6.8	6.8	6.9	6.6	5.5	4.9	4.9	5.1	5.6	—
25	6.4	6.5	6.5	6.5	6.6	6.7	5.5	4.3	3.0	3.1	4.2	5.4	—
26	6.5	6.5	6.3	6.7	6.3	6.8	6.3	5.0	4.2	3.8	3.8	5.0	—
27	6.6	6.6	6.7	6.7	6.5	6.9	6.9	5.4	5.1	5.1	5.5	6.6	—
28	6.4	6.4	6.5	6.7	6.7	7.3	7.1	5.0	5.0	5.2	5.9	6.8	—
29	6.4	6.2	6.4	6.4	6.6	7.4	6.6	4.8	4.1	4.6	5.0	7.1	—
30	6.4	6.5	6.4	6.6	6.7	6.7	5.8	4.9	4.4	4.0	4.6	5.6	—
Hourly Means.	6.62	6.66	6.68	6.76	6.77	7.20	7.16	6.06	5.11	4.94	5.12	5.75	—

SEPTEMBER.	Mean Batavia Time. 1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	6.8	8.3	9.1	8.9	7.9	7.3	7.6	7.5	6.8	6.8	7.1	6.8	7.21
2	6.6	7.1	7.4	7.1	6.9	6.8	6.8	6.8	6.7	6.5	6.6	6.8	6.64
3	5.7	6.2	6.9	7.2	7.2	6.8	6.7	6.8	6.8	6.6	6.7	6.8	6.46
4	5.2	5.6	6.7	6.7	7.1	7.1	7.1	6.9	6.8	6.7	6.7	6.8	6.58
5	6.8	7.2	7.2	7.7	7.7	7.4	7.1	6.9	6.9	6.7	6.7	6.8	6.79
6	4.6	5.9	7.1	7.5	7.4	7.1	6.8	6.8	6.8	6.7	6.7	6.7	6.37
7	4.6	5.2	6.4	7.4	7.6	7.3	6.9	6.8	6.6	6.5	6.6	6.8	6.33
8	5.2	6.3	7.5	8.0	7.5	6.9	6.7	6.7	6.7	6.6	6.7	6.6	6.37
9	6.8	7.3	7.6	8.0	7.5	6.9	6.8	6.7	6.4	6.3	6.7	6.7	6.82
10	6.0	6.5	7.4	7.6	7.4	7.1	6.8	6.8	6.8	6.8	6.7	6.8	6.81
11	5.7	6.6	7.4	8.1	7.7	7.1	6.8	6.8	6.8	6.8	6.8	6.9	6.69
12	6.7	7.5	8.0	8.1	7.6	7.5	6.8	6.8	6.8	6.7	6.6	6.6	6.75
13	6.8	7.9	8.7	8.1	7.4	6.8	7.1	6.7	6.5	6.6	6.4	6.5	6.75
14	5.9	6.8	7.1	7.6	7.6	6.8	6.3	6.5	6.3	6.5	6.4	6.0	6.40
15	6.7	6.6	7.1	7.4	7.1	6.8	6.8	6.9	5.8	6.5	6.5	6.5	6.58
16	5.7	6.7	7.9	8.2	7.9	7.1	6.8	6.8	6.6	6.5	6.6	6.4	6.63
17	6.5	6.8	7.2	7.2	7.2	6.9	6.7	6.7	6.7	6.6	6.6	6.7	6.60
18	5.4	6.4	7.7	8.2	8.2	7.5	6.8	6.9	6.8	6.5	6.5	6.3	6.58
19	5.7	6.4	6.8	7.4	7.2	7.2	7.2	7.1	6.8	6.6	6.3	6.4	6.26
20	6.2	6.7	7.6	8.0	7.4	7.2	6.8	6.8	6.7	6.7	6.7	6.6	6.56
21	5.9	7.5	8.0	7.9	7.4	7.3	6.8	6.8	6.8	6.7	6.7	6.5	6.65
22	6.8	6.8	7.2	7.7	7.5	7.2	6.8	6.8	6.7	6.6	6.6	6.6	6.63
23	6.8	6.9	8.0	8.2	7.5	7.2	6.8	6.8	6.7	6.6	6.6	6.8	6.81
24	6.3	7.1	8.0	8.1	7.5	6.8	6.7	6.6	6.6	6.5	6.5	6.4	6.53
25	6.3	8.7	9.0	8.0	7.2	6.8	6.8	6.8	6.8	6.6	6.4	6.6	6.28
26	6.3	6.9	7.9	8.0	7.7	7.1	6.8	6.8	6.7	5.7	6.2	6.3	6.23
27	8.0	10.0	9.5	7.3	7.1	7.1	6.2	6.8	6.3	5.9	6.3	6.3	6.73
28	6.9	8.0	8.1	7.9	7.2	6.8	6.7	6.3	6.3	6.3	6.3	6.4	6.59
29	7.9	7.7	6.8	6.5	6.5	6.6	6.5	6.5	6.6	6.0	6.4	6.4	6.33
30	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.7	6.5	6.3	6.5	6.20
Hourly Means.	6.25	7.01	7.60	7.69	7.40	7.04	6.81	6.79	6.64	6.52	6.56	6.58	6.57

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	182	181	187	191	191	197	207	214	225	227	231	225	—
	2	184	186	199	198	204	199	209	220	229	227	233	233	—
	3	185	190	192	193	186	184	199	206	213	220	219	224	—
	4	192	190	192	193	196	199	206	218	227	232	235	228	—
	5	194	198	201	201	201	203	215	234	245	254	256	248	—
	6	200	200	201	202	205	208	215	226	238	250	252	248	—
	7	198	200	201	203	207	209	223	234	245	257	266	257	—
	8	206	207	211	214	210	216	225	234	249	249	258	237	—
	9	196	196	198	201	201	206	221	230	241	238	242	239	—
	10	197	199	210	201	204	208	221	235	240	245	247	237	—
	11	197	199	199	201	201	204	214	222	230	234	241	238	—
	12	197	198	201	201	202	206	210	221	250	259	258	247	—
	13	184	187	202	192	199	202	205	203	213	221	225	230	—
	14	175	192	179	181	183	186	192	205	209	216	219	219	—
	15	176	178	175	178	182	182	194	186	183	209	215	216	—
	16	161	165	182	182	182	181	192	197	201	214	214	209	—
	17	180	178	178	178	180	183	191	201	212	221	222	218	—
	18	182	182	183	192	198	189	195	208	220	220	220	222	—
	19	159	165	163	167	166	172	177	193	198	193	194	196	—
	20	168	176	179	170	178	183	191	207	205	211	206	196	—
	21	175	173	181	187	188	191	197	209	215	221	217	211	—
	22	166	170	172	172	173	182	191	201	208	211	211	209	—
	23	176	179	183	187	190	192	203	217	223	227	225	230	—
	24	174	187	182	185	187	189	192	206	213	216	216	215	—
	25	189	192	194	199	199	197	206	219	231	236	235	239	—
	26	165	173	176	173	178	179	189	200	219	220	220	215	—
	27	165	175	177	178	178	183	190	201	184	198	208	211	—
	28	181	180	181	177	179	178	189	193	195	200	201	196	—
	29	180	186	188	187	175	182	176	182	190	189	198	196	—
	30	154	177	166	166	165	169	176	184	189	191	192	201	—
Hourly Means.		181.3	185.3	187.8	188.3	189.6	192.0	200.4	210.2	218.0	223.5	225.9	223.0	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	217	205	186	189	187	183	177	173	173	179	187	181	195.6
	2	222	209	198	192	187	188	182	182	179	183	187	181	200.5
	3	224	207	195	189	188	192	194	191	187	190	187	187	197.6
	4	220	211	198	193	195	194	195	193	193	192	193	192	203.2
	5	239	228	215	202	197	197	197	196	196	196	196	196	212.7
	6	240	230	217	207	201	197	196	196	194	195	197	198	213.0
	7	245	238	232	220	203	204	201	204	203	206	206	203	219.4
	8	211	214	202	187	175	185	191	191	191	192	192	195	210.1
	9	219	201	193	189	196	198	195	191	187	195	185	193	206.3
	10	227	217	206	201	198	197	195	195	194	193	196	196	210.8
	11	234	222	210	201	198	196	197	196	195	195	196	196	209.0
	12	238	212	202	193	196	184	173	178	167	168	177	183	205.0
	13	220	193	158	150	153	163	160	159	168	159	156	164	186.1
	14	203	187	186	173	160	171	180	179	180	179	178	183	188.1
	15	203	184	176	173	176	173	175	161	173	164	158	158	181.2
	16	199	183	158	154	156	171	169	163	168	172	169	180	180.1
	17	215	200	187	181	179	181	180	179	180	182	182	177	190.2
	18	211	204	187	170	164	163	168	167	161	160	155	155	186.5
	19	187	167	168	174	183	170	159	157	166	164	164	168	173.8
	20	188	192	187	172	163	164	163	168	168	167	164	169	180.6
	21	197	184	173	177	177	175	179	181	175	170	165	165	186.8
	22	198	189	173	165	172	177	181	181	180	175	176	174	183.6
	23	220	204	186	173	173	178	178	173	171	173	175	173	192.0
	24	213	207	202	195	187	187	191	187	184	188	189	190	195.1
	25	234	195	177	182	184	187	172	157	156	160	162	163	194.4
	26	209	193	178	163	153	158	152	158	149	158	155	159	178.8
	27	173	151	126	137	142	141	148	157	166	187	167	175	171.6
	28	184	173	154	153	154	164	160	173	172	174	178	180	177.9
	29	175	164	161	168	170	171	170	171	166	161	144	149	175.0
	30	201	188	173	171	168	168	167	163	160	159	164	168	174.2
Hourly Means.		212.2	198.4	185.5	179.8	177.8	179.2	178.2	177.3	176.7	177.9	176.7	178.4	192.6

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	371	371	368	367	367	362	360	367	363	363	363	367	—
	2	377	376	372	371	369	369	367	365	362	358	346	341	—
	3	372	371	369	370	374	374	367	375	371	354	370	365	—
	4	369	370	369	369	368	365	363	367	363	363	364	368	—
	5	374	371	369	369	370	367	365	356	349	342	330	333	—
	6	369	369	368	368	368	363	362	362	368	371	366	364	—
	7	368	367	367	365	362	359	359	364	362	354	349	353	—
	8	367	365	363	361	365	357	362	368	367	362	356	362	—
	9	368	368	367	363	363	357	355	352	346	346	335	334	—
	10	356	356	348	354	352	347	347	352	351	346	341	347	—
	11	363	363	362	359	359	353	353	357	351	343	339	340	—
	12	364	364	363	361	360	356	356	365	352	342	346	349	—
	13	371	369	362	367	364	361	370	393	395	387	369	362	—
	14	385	375	384	384	384	380	379	379	374	359	347	344	—
	15	385	385	386	384	382	382	378	380	379	359	353	358	—
	16	390	386	378	377	381	378	379	384	378	370	366	365	—
	17	378	379	381	381	381	378	378	390	386	376	374	369	—
	18	386	386	385	382	378	381	387	384	371	365	362	365	—
	19	392	389	390	387	388	385	391	390	392	392	389	384	—
	20	387	384	380	384	383	378	378	373	374	368	373	375	—
	21	382	381	379	376	376	374	378	378	370	363	357	359	—
	22	389	384	382	382	381	375	379	385	381	371	365	368	—
	23	382	381	377	376	374	369	371	374	371	360	359	358	—
	24	387	379	381	379	378	377	382	373	360	357	353	347	—
	25	372	371	368	365	365	369	369	367	356	347	340	334	—
	26	381	377	375	378	374	373	378	384	369	359	341	337	—
	27	381	375	374	374	374	369	372	373	376	359	346	338	—
	28	371	374	374	376	376	375	379	392	389	382	363	354	—
	29	377	376	375	376	383	376	393	395	384	369	347	345	—
	30	389	373	381	381	381	379	383	378	368	361	354	335	—
Hourly Means.		376.8	374.5	373.2	372.9	372.7	369.6	371.3	374.1	369.3	361.6	355.4	354.0	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	371	373	384	384	391	390	390	391	390	384	378	381	374.8
	2	351	362	371	373	378	378	381	382	381	377	374	377	369.1
	3	366	368	371	373	374	373	374	376	377	376	375	372	371.1
	4	375	375	379	384	380	380	380	380	380	379	377	375	372.6
	5	344	354	362	368	376	380	379	379	378	376	374	372	364.0
	6	361	358	359	370	375	377	377	377	377	376	371	370	368.6
	7	359	359	354	354	368	371	373	373	371	369	369	368	363.2
	8	378	359	356	368	381	376	373	374	373	373	371	371	367.0
	9	343	352	352	357	358	359	362	365	367	362	365	360	356.5
	10	356	363	364	369	369	369	368	367	367	367	367	365	357.8
	11	338	343	352	360	366	368	367	365	364	365	365	365	356.7
	12	351	357	359	371	371	376	380	379	385	381	374	371	363.9
	13	369	384	401	420	411	403	401	396	390	396	398	392	384.6
	14	350	360	365	369	394	392	384	382	381	383	385	383	375.1
	15	367	383	392	393	392	392	390	396	392	395	397	395	383.1
	16	367	373	384	387	389	385	388	390	386	384	385	378	380.3
	17	374	383	392	394	395	395	394	393	393	389	389	390	384.7
	18	370	363	368	381	394	401	396	395	398	399	399	396	383.0
	19	381	382	376	377	378	388	396	398	392	392	391	389	387.9
	20	376	369	372	382	392	393	394	392	390	390	390	388	381.9
	21	367	373	384	383	384	386	385	384	388	390	391	390	378.3
	22	376	382	384	378	377	378	380	380	381	384	384	384	379.6
	23	362	369	375	385	388	388	388	390	392	390	389	389	377.4
	24	347	351	356	365	376	377	374	376	376	373	374	374	369.7
	25	330	346	360	365	370	374	384	393	392	390	386	385	366.6
	26	342	355	369	384	395	391	392	385	393	390	388	385	374.8
	27	365	380	395	394	390	390	388	382	381	368	380	376	375.0
	28	365	368	386	391	391	384	385	381	379	378	377	377	377.8
	29	362	378	388	387	382	381	382	382	383	389	396	393	379.1
	30	339	354	369	376	377	378	379	382	383	384	381	378	372.6
Hourly Means.		360.1	365.9	372.6	378.1	382.1	382.4	382.8	382.8	382.7	381.6	381.3	379.6	373.2

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°40′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	6.6	6.7	6.7	6.6	6.5	6.6	5.3	4.4	3.5	4.3	5.4	6.8	—
	2	6.3	6.0	6.0	6.0	5.8	6.0	5.4	3.5	2.8	2.9	4.1	6.1	—
	3	6.3	6.6	6.6	6.6	6.6	6.7	6.3	5.4	4.9	5.0	5.4	6.8	—
	4	6.2	6.3	6.5	6.6	6.5	6.6	5.5	4.2	3.6	4.3	5.2	6.9	—
	5	6.7	6.7	6.6	6.7	6.7	6.7	5.4	3.5	2.1	2.8	4.9	6.8	—
	6	6.8	7.0	6.9	7.1	7.1	7.1	6.0	4.2	4.0	3.7	5.4	6.7	—
	7	6.5	6.7	6.7	6.9	6.6	6.6	6.1	5.2	5.1	5.8	6.5	7.6	—
	8	6.8	6.8	6.8	6.8	6.7	6.8	5.8	3.8	2.7	2.5	3.4	5.7	—
	9	6.8	6.7	6.7	6.7	6.7	6.9	5.8	4.3	2.9	3.2	4.3	6.3	—
	10	6.3	6.8	6.8	6.7	6.6	6.7	5.8	4.1	3.6	3.5	4.5	6.9	—
	11	6.3	6.3	6.2	6.2	6.1	7.1	6.8	5.9	5.7	5.4	5.9	6.9	—
	12	6.2	6.1	6.2	6.3	6.3	6.5	5.8	4.7	4.6	4.1	4.3	5.9	—
	13	6.3	6.3	6.2	6.1	6.0	5.7	4.6	4.6	4.2	4.7	5.7	7.0	—
	14	6.3	6.3	6.3	6.1	6.0	5.8	5.2	4.5	4.6	5.0	6.8	8.6	—
	15	6.2	6.1	6.1	5.9	5.8	5.8	4.6	3.7	3.6	4.1	5.2	6.7	—
	16	6.3	6.3	6.2	6.1	6.0	6.0	5.1	4.6	4.6	5.0	6.3	7.9	—
	17	6.3	6.2	6.2	6.2	6.0	6.1	5.2	4.6	4.5	4.6	5.7	7.1	—
	18	6.3	6.3	6.2	6.5	6.2	6.0	5.2	4.7	4.6	4.9	5.8	7.3	—
	19	6.0	6.2	6.2	6.2	6.1	6.0	4.6	4.4	4.1	4.5	4.6	6.6	—
	20	6.3	5.7	5.8	6.5	6.7	6.8	6.5	4.3	3.3	4.5	5.9	7.0	—
	21	5.8	6.1	6.1	5.7	5.5	5.4	4.6	4.3	3.5	4.5	6.2	6.9	—
	22	6.0	6.0	6.2	6.2	6.2	6.2	5.7	4.6	4.6	4.7	5.7	7.1	—
	23	6.3	6.2	6.2	6.0	6.0	5.5	4.3	3.5	3.5	4.1	5.2	6.1	—
	24	6.6	6.1	6.1	6.0	5.8	5.7	5.3	4.5	4.5	5.3	7.3	8.6	—
	25	5.4	5.8	5.3	5.5	5.4	5.5	4.5	4.0	3.7	3.8	5.3	6.8	—
	26	6.0	5.8	5.8	5.8	5.8	5.8	5.3	5.3	5.8	6.2	7.4	8.1	—
	27	6.0	6.0	6.1	5.9	5.8	5.5	5.2	5.8	6.3	6.8	7.8	8.1	—
	28	5.9	6.1	6.1	6.0	5.8	5.5	4.6	4.6	4.6	5.8	6.8	8.1	—
	29	6.1	6.1	5.9	5.8	5.8	5.8	5.4	5.5	5.3	5.5	6.0	6.5	—
	30	6.1	6.0	6.0	5.9	5.8	5.5	4.6	4.5	5.1	5.4	5.8	6.2	—
	31	5.8	5.8	5.2	4.7	4.2	4.4	5.1	4.6	4.1	4.5	6.7	8.1	—
Hourly Means.		6.25	6.26	6.22	6.20	6.10	6.11	5.34	4.51	4.19	4.56	5.66	7.04	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	8.1	8.2	8.1	7.5	7.4	7.5	7.1	6.9	6.8	6.7	6.8	6.6	6.55
	2	7.7	7.9	7.3	6.7	6.8	7.0	6.9	6.8	6.7	6.6	6.5	6.3	6.00
	3	8.2	8.7	8.4	7.7	7.1	6.9	6.8	6.8	6.6	6.5	6.5	6.2	6.65
	4	8.4	8.4	8.3	7.8	7.5	7.1	6.9	6.9	6.8	6.7	6.7	6.6	6.52
	5	8.7	9.3	9.2	8.1	7.1	7.0	6.8	6.8	6.8	6.6	6.7	6.7	6.48
	6	7.5	7.9	7.9	7.3	6.9	6.9	6.6	6.6	6.7	6.0	6.6	6.2	6.46
	7	8.6	8.4	8.5	7.9	6.9	6.9	6.9	6.8	6.6	6.6	6.5	6.8	6.82
	8	7.5	7.7	7.7	7.4	6.9	6.9	6.9	6.9	6.7	6.6	6.7	6.7	6.22
	9	7.9	9.0	8.4	7.4	6.9	7.1	6.8	6.6	6.6	6.6	6.7	6.6	6.41
	10	8.5	9.0	8.7	8.2	7.0	6.9	6.9	6.7	6.6	6.6	6.7	6.5	6.53
	11	7.9	8.2	7.8	7.1	7.0	6.9	6.7	6.7	6.6	6.6	6.6	6.2	6.63
	12	7.5	7.5	7.0	7.5	7.6	7.0	6.9	5.8	6.0	6.5	6.1	6.3	6.20
	13	7.8	8.1	7.9	6.9	6.8	6.8	6.9	6.9	6.2	6.5	6.5	6.3	6.29
	14	9.1	8.3	7.9	7.4	6.9	6.7	6.6	6.5	6.3	5.8	6.0	6.3	6.47
	15	7.8	7.9	7.3	7.0	6.9	6.9	6.7	6.6	6.3	6.3	6.3	6.3	6.09
	16	8.3	8.3	7.5	6.9	6.9	6.9	6.8	6.7	6.7	6.3	6.2	6.1	6.42
	17	7.9	8.2	8.2	7.8	7.0	6.9	6.8	6.8	6.6	6.6	6.5	6.3	6.43
	18	8.1	8.1	7.9	6.9	6.6	6.6	6.6	6.3	6.2	5.8	5.8	5.9	6.28
	19	7.5	8.1	7.8	7.1	6.5	6.7	6.8	6.7	6.8	6.1	6.2	6.5	6.18
	20	7.8	8.1	8.3	7.9	6.9	7.3	6.9	6.9	6.8	6.0	5.9	6.0	6.42
	21	8.2	7.7	7.0	6.9	7.1	7.0	6.9	6.7	5.9	6.1	6.2	5.9	6.09
	22	8.2	8.1	8.1	7.4	6.8	6.8	6.5	6.6	6.3	6.2	6.3	6.5	6.38
	23	6.9	7.4	7.5	7.7	7.5	7.6	7.0	6.6	6.7	6.7	6.3	6.6	6.14
	24	9.3	9.1	8.4	7.6	6.9	6.8	6.8	6.8	6.5	6.3	6.1	5.9	6.60
	25	8.1	7.9	7.3	6.9	6.9	6.9	6.6	6.5	6.6	6.2	6.1	5.9	5.95
	26	7.6	7.0	7.0	6.9	6.9	6.7	6.6	6.3	6.2	6.0	5.8	6.1	6.34
	27	7.9	7.4	6.8	6.3	6.8	6.9	6.7	6.7	6.6	6.6	6.3	6.0	6.51
	28	8.1	7.7	7.1	6.9	7.0	6.8	6.7	6.7	6.1	6.1	6.1	6.2	6.31
	29	6.8	6.8	6.9	6.9	6.8	6.7	6.7	6.6	6.6	6.3	6.1	6.0	6.20
	30	6.9	7.4	7.1	7.1	6.9	6.6	6.3	6.3	6.2	6.0	5.9	5.9	6.06
	31	8.2	9.5	9.0	8.3	7.7	7.1	6.7	6.6	6.7	6.2	6.0	6.1	6.30
Hourly Means.		7.97	8.11	7.82	7.34	7.00	6.93	6.77	6.65	6.51	6.35	6.31	6.27	6.35

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

OCTOBER.	Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
	1	177	179	180	183	183	184	189	199	204	210	218	218	—
	2	185	191	199	191	192	199	199	210	212	218	220	222	—
	3	186	187	189	189	192	194	199	208	216	218	219	220	—
	4	185	188	189	191	192	195	205	213	217	221	229	235	—
	5	190	191	195	192	198	199	211	223	235	237	249	254	—
	6	166	162	172	172	169	173	176	188	188	192	199	200	—
	7	173	176	177	180	184	183	186	198	209	207	213	208	—
	8	179	180	180	182	184	184	195	204	210	214	218	226	—
	9	180	182	189	189	193	190	203	208	219	222	223	224	—
	10	180	181	183	184	185	190	196	207	207	213	221	222	—
	11	187	186	189	188	187	189	194	190	194	197	202	203	—
	12	187	177	193	189	189	194	201	197	192	198	213	205	—
	13	171	171	176	182	180	185	189	194	208	207	208	206	—
	14	172	173	176	178	177	175	182	186	194	208	207	206	—
	15	180	182	180	182	181	185	189	202	208	213	215	208	—
	16	189	189	190	189	190	194	203	211	221	227	222	216	—
	17	180	182	183	185	188	190	194	199	207	217	213	214	—
	18	181	184	189	188	189	189	195	199	205	213	214	212	—
	19	192	192	185	197	192	192	196	197	207	212	214	212	—
	20	177	195	182	182	189	167	171	174	181	180	190	188	—
	21	171	175	175	170	172	172	198	184	197	197	170	178	—
	22	168	170	180	176	180	180	179	190	200	208	203	204	—
	23	175	171	175	176	180	184	193	202	213	214	208	195	—
	24	165	172	173	180	179	169	180	188	195	201	197	192	—
	25	159	156	161	161	161	168	175	177	184	187	196	197	—
	26	161	166	169	167	170	173	185	200	203	212	214	206	—
	27	167	170	171	175	175	179	183	193	201	203	197	191	—
	28	172	170	170	172	174	176	179	185	196	199	199	191	—
	29	174	174	177	177	178	180	189	194	199	200	199	199	—
	30	172	175	175	176	175	178	184	190	201	209	208	205	—
	31	180	181	213	214	218	208	202	221	231	237	189	195	—
	Hourly Means.	176.8	178.3	181.8	182.5	183.7	184.5	191.0	197.8	205.0	209.4	209.3	208.1	—

OCTOBER.	Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
	1	211	194	184	174	170	168	169	173	174	178	178	184	186.7
	2	217	206	199	196	187	184	186	184	179	177	178	181	196.3
	3	214	199	191	191	189	187	188	188	186	185	184	184	196.0
	4	230	217	206	200	194	194	190	189	188	188	188	189	201.4
	5	243	208	189	185	189	171	159	178	175	184	175	170	200.0
	6	190	179	170	170	165	160	170	170	166	185	165	176	176.0
	7	205	195	188	182	175	170	170	172	173	170	180	179	185.5
	8	214	194	184	178	181	180	182	180	180	181	177	179	190.3
	9	213	197	189	184	185	184	188	185	182	187	188	183	195.3
	10	208	195	188	189	184	180	175	174	180	184	183	182	191.3
	11	197	188	183	184	185	182	186	184	186	188	184	189	189.3
	12	184	181	183	169	159	155	157	168	149	161	172	168	180.9
	13	199	183	161	161	168	172	171	163	175	159	156	180	180.2
	14	196	187	181	177	166	168	174	172	170	180	180	175	181.7
	15	201	192	183	183	180	181	181	181	185	183	181	187	189.3
	16	211	200	193	189	183	180	174	171	166	172	178	180	193.3
	17	207	195	193	197	196	193	193	189	178	175	176	180	192.7
	18	208	202	199	193	191	186	177	184	192	191	189	192	194.3
	19	206	195	216	210	210	213	206	200	168	191	189	192	199.4
	20	190	183	157	142	156	158	161	155	156	160	160	157	171.3
	21	173	166	176	170	156	150	142	152	176	164	169	173	171.9
	22	196	182	169	160	164	166	170	165	171	170	168	182	179.2
	23	189	190	183	175	169	153	156	161	154	161	182	167	180.3
	24	185	173	168	169	166	167	163	163	160	163	161	166	174.8
	25	182	165	165	161	159	162	154	157	150	161	154	154	166.9
	26	201	194	185	182	175	172	172	174	168	171	166	165	181.3
	27	185	175	169	172	165	161	167	168	166	167	170	170	176.7
	28	190	184	180	179	175	169	170	166	175	167	169	170	178.2
	29	195	189	189	180	170	163	166	169	169	170	169	174	181.0
	30	202	199	191	188	184	180	180	178	177	176	179	179	185.9
	31	192	179	175	171	168	175	170	170	160	162	161	165	189.0
	Hourly Means.	201.1	189.9	183.5	179.4	176.3	173.7	173.1	173.6	172.1	174.5	174.5	176.5	185.7

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	363	363	363	362	362	362	366	365	349	331	323	317	—
	2	361	359	356	362	363	360	370	369	361	345	330	322	—
	3	365	364	364	364	363	360	365	366	357	351	347	339	—
	4	367	366	364	364	365	362	366	364	359	348	335	319	—
	5	363	361	359	361	359	359	363	377	361	335	319	310	—
	6	384	384	377	375	378	377	382	374	361	344	334	333	—
	7	375	372	372	370	370	369	373	373	364	347	340	336	—
	8	367	366	365	364	363	362	372	375	365	355	330	317	—
	9	369	367	362	362	359	359	367	372	359	348	334	323	—
	10	373	372	370	367	367	365	373	373	371	363	347	332	—
	11	370	371	369	369	369	365	372	382	378	370	360	346	—
	12	372	377	367	369	369	362	366	369	368	366	347	336	—
	13	372	372	370	368	369	369	372	369	359	348	337	334	—
	14	370	370	369	369	370	370	367	362	348	323	313	313	—
	15	364	362	364	364	366	367	374	367	356	337	325	322	—
	16	359	361	360	362	362	360	364	362	352	341	339	340	—
	17	364	364	362	361	361	364	372	370	361	352	341	331	—
	18	366	365	361	363	362	365	369	372	364	351	335	327	—
	19	368	367	370	366	366	366	372	373	365	357	342	337	—
	20	373	366	375	372	367	380	396	413	402	384	353	345	—
	21	377	375	373	377	377	382	378	390	381	377	378	369	—
	22	378	378	372	375	373	373	384	379	371	359	352	347	—
	23	375	378	375	374	373	377	380	376	367	366	356	352	—
	24	381	379	379	375	377	382	383	390	375	358	344	346	—
	25	395	394	392	389	386	384	391	393	383	373	358	353	—
	26	388	385	384	384	382	378	377	366	362	355	347	352	—
	27	389	387	384	381	381	383	383	379	372	368	374	380	—
	28	387	388	386	384	383	384	385	385	372	362	362	366	—
	29	384	384	383	383	383	382	382	380	375	367	358	350	—
	30	384	384	384	384	384	384	381	372	368	360	351	351	—
	31	378	378	366	362	364	370	375	380	366	347	356	354	—
Hourly Means.		373.6	372.9	370.9	370.4	370.1	370.4	374.8	375.4	366.2	354.5	344.1	338.7	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	326	348	359	365	367	370	372	369	367	366	365	361	356.7
	2	332	351	367	375	375	374	373	373	375	373	372	367	361.0
	3	338	353	366	372	371	373	372	370	370	370	369	367	362.3
	4	319	334	350	359	366	366	367	369	368	367	366	365	357.3
	5	320	348	372	375	377	386	397	383	383	378	380	383	362.9
	6	346	361	368	373	378	383	380	378	381	373	383	377	370.2
	7	340	351	359	372	378	378	377	372	372	372	368	367	365.3
	8	328	344	357	369	368	367	367	369	369	369	372	372	360.5
	9	337	350	365	375	372	372	370	372	372	372	370	372	361.7
	10	340	357	372	373	375	375	377	377	375	371	372	372	367.0
	11	350	359	366	370	369	372	371	371	370	369	372	370	367.9
	12	350	359	359	365	376	384	380	378	384	379	369	372	367.6
	13	345	365	381	383	375	372	373	378	373	378	381	366	367.0
	14	332	352	364	374	382	377	372	371	370	365	364	366	359.7
	15	329	343	353	359	364	365	366	367	366	366	366	361	357.2
	16	347	362	372	373	374	375	375	376	377	372	367	366	362.4
	17	338	347	353	358	362	366	366	368	375	378	373	368	360.6
	18	335	351	366	375	375	375	378	373	372	371	370	368	362.9
	19	339	352	353	358	359	359	366	369	384	376	372	369	362.7
	20	347	353	379	395	386	382	383	388	387	391	387	386	378.8
	21	369	371	370	372	380	389	393	386	375	381	379	375	378.1
	22	351	362	377	386	383	380	380	383	381	381	381	373	373.3
	23	361	360	370	374	380	391	394	389	392	388	375	381	375.2
	24	352	365	381	386	390	390	391	391	392	390	391	390	378.3
	25	362	373	374	381	380	383	389	389	394	387	394	394	383.0
	26	363	369	375	378	384	387	386	386	390	388	392	391	377.0
	27	388	392	390	392	390	394	389	387	387	388	387	389	384.8
	28	373	375	376	383	385	390	388	389	384	389	387	387	381.3
	29	348	356	366	378	391	395	390	388	388	388	388	386	378.0
	30	361	369	377	384	384	384	381	381	381	381	380	380	376.3
	31	361	370	378	386	391	384	389	388	391	389	389	388	375.0
Hourly Means.		346.0	358.1	368.2	374.8	377.0	378.6	379.1	378.3	378.9	377.6	376.8	375.1	368.8

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°40′.0 + THE NUMBERS IN THE TABLE.

NOVEMBER.	Mean Batavia Time. 1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	6.0	5.9	6.1	7.7	5.6	6.9	5.7	4.2	4.1	4.2	5.9	6.0	—
2	5.8	5.8	5.8	5.9	5.8	5.8	5.6	5.6	5.6	5.7	6.0	6.5	—
3	6.0	6.2	6.2	6.1	5.9	5.6	4.5	4.3	4.4	4.9	5.7	6.6	—
4	6.2	6.2	6.2	6.2	6.1	5.3	4.5	3.7	3.9	4.6	6.1	7.5	—
5	5.9	6.1	6.2	6.3	6.1	5.6	4.8	3.6	3.3	4.0	6.1	7.1	—
6	5.9	6.0	6.0	5.8	5.8	5.6	4.2	4.4	4.0	4.3	5.4	7.4	—
7	5.9	5.9	5.8	5.6	5.4	6.0	4.5	3.7	2.8	2.5	3.4	6.6	—
8	5.6	6.0	5.7	5.7	5.4	5.4	4.6	4.2	4.1	3.9	4.5	6.0	—
9	5.7	5.8	5.6	5.4	5.2	5.7	4.8	4.5	4.6	4.5	5.8	6.8	—
10	5.9	5.7	5.7	5.7	5.7	4.5	4.5	4.2	4.4	4.5	4.9	5.6	—
11	6.0	6.0	5.9	5.8	5.9	5.3	4.1	3.7	3.4	4.5	4.6	6.3	—
12	6.0	6.0	5.8	5.7	5.0	4.5	4.0	4.0	4.4	5.1	6.0	6.8	—
13	5.9	5.9	5.9	5.9	5.7	5.6	4.8	5.1	5.1	4.8	5.4	6.6	—
14	5.9	5.8	5.8	5.7	5.7	5.2	4.2	3.4	3.5	4.0	5.4	6.2	—
15	5.8	5.8	5.8	5.7	5.7	5.6	4.9	4.9	5.0	5.2	5.9	6.8	—
16	5.8	5.9	5.7	5.7	5.7	4.3	3.5	5.0	4.4	4.6	5.0	5.8	—
17	5.4	4.8	4.2	4.5	4.6	3.5	3.5	3.4	4.9	4.8	6.9	8.1	—
18	5.2	5.4	5.0	4.5	5.1	4.8	4.1	4.2	5.3	5.2	5.6	6.0	—
19	5.7	6.1	6.2	5.9	5.7	5.4	4.0	3.1	3.2	4.6	5.8	8.0	—
20	6.0	6.3	6.5	6.3	5.7	4.5	3.2	2.3	3.3	4.2	5.9	7.8	—
21	5.7	5.7	5.7	5.7	5.6	5.1	3.6	2.9	3.4	4.5	6.5	8.0	—
22	5.9	5.9	5.8	5.7	5.7	5.7	4.0	2.7	2.7	3.6	5.2	6.6	—
23	5.7	5.8	5.8	5.8	5.8	5.6	4.5	3.4	2.8	3.6	4.5	5.8	—
24	5.9	5.9	5.9	5.9	5.8	6.2	4.5	3.4	2.7	3.1	4.8	5.9	—
25	5.6	5.4	5.4	5.4	5.6	5.1	4.4	3.7	3.5	4.1	5.0	6.6	—
26	5.6	5.4	5.3	5.2	5.1	4.8	5.2	4.3	3.6	3.9	4.6	5.9	—
27	5.3	5.2	4.8	4.9	4.6	4.8	5.0	5.0	4.8	5.2	5.8	7.4	—
28	5.2	5.6	5.4	5.7	5.7	5.4	4.1	4.4	4.2	4.6	4.8	6.2	—
29	6.1	5.9	5.8	6.1	5.8	5.2	3.6	2.4	2.3	2.8	4.2	5.6	—
30	6.0	6.1	6.0	5.7	5.6	5.0	4.0	3.5	3.9	4.6	5.6	6.0	—
													—
Hourly Means.	5.79	5.82	5.73	5.74	5.57	5.27	4.36	3.91	3.92	4.34	5.38	6.62	—

NOVEMBER.	Mean Batavia Time. 1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	7.4	7.8	8.3	8.1	7.6	6.8	6.7	6.0	6.1	6.0	5.8	6.1	6.29
2	6.7	6.7	6.5	6.3	6.5	6.7	6.3	6.2	6.2	6.0	5.9	6.1	6.08
3	7.1	7.1	6.8	6.3	6.2	6.2	6.1	6.1	6.2	6.2	6.1	6.1	5.95
4	8.1	8.0	7.7	6.9	6.5	6.5	6.3	6.3	6.2	6.0	5.1	6.1	6.09
5	7.7	7.4	7.1	7.1	6.8	6.5	6.2	5.8	5.7	5.7	5.7	5.8	5.94
6	8.2	8.3	7.3	6.7	6.2	6.6	6.3	5.9	6.0	5.2	4.9	5.9	5.93
7	7.7	8.0	7.6	7.0	6.8	6.8	6.8	6.7	6.5	5.9	5.7	5.7	5.80
8	7.3	7.8	8.0	7.7	7.3	7.3	7.0	6.8	6.7	6.3	6.0	5.3	6.03
9	7.0	7.0	7.0	7.1	6.8	6.6	6.0	6.1	5.9	5.9	5.8	5.9	5.90
10	6.8	7.6	7.7	7.6	7.0	6.8	6.6	6.6	6.5	6.2	5.9	5.9	5.94
11	7.1	8.3	9.8	8.3	7.6	7.6	7.4	6.9	6.6	6.3	6.1	6.2	6.24
12	6.8	6.8	6.8	6.7	6.6	6.2	6.2	6.3	6.1	6.0	6.0	5.9	5.82
13	7.5	8.2	8.0	7.7	7.0	6.7	6.3	6.2	6.0	5.9	5.9	6.0	6.17
14	7.3	7.8	8.0	7.4	6.8	6.2	6.2	6.2	6.2	6.0	5.7	5.7	5.85
15	7.7	8.0	7.8	7.4	6.8	6.7	6.5	6.5	6.2	6.0	5.9	5.8	6.18
16	5.9	6.7	7.6	7.5	7.4	6.8	6.4	5.9	6.0	5.7	5.6	5.6	5.76
17	8.9	8.8	9.8	9.1	7.4	6.3	6.3	6.1	5.7	5.4	5.7	5.7	5.99
18	6.7	6.1	6.7	6.8	6.8	6.7	5.2	6.1	6.1	6.0	5.7	5.8	5.63
19	8.3	8.0	7.5	6.9	6.2	6.3	5.4	6.6	6.1	5.7	5.8	5.9	5.93
20	8.5	8.5	8.1	7.0	6.3	6.6	6.6	6.5	6.1	5.9	5.4	5.3	5.95
21	8.9	8.8	8.0	6.9	6.7	6.6	6.5	6.6	6.3	6.2	5.7	5.9	6.06
22	6.8	8.0	8.0	7.1	6.8	6.3	6.5	6.1	6.0	5.9	5.7	5.7	5.77
23	7.0	8.1	8.1	7.4	6.8	6.2	6.3	6.2	6.0	5.9	5.8	5.9	5.78
24	6.7	7.4	7.4	7.5	6.9	6.3	6.2	6.1	5.9	5.7	5.6	5.6	5.72
25	8.4	9.0	8.8	8.0	7.0	6.8	6.5	6.3	6.1	5.9	5.8	5.6	6.00
26	7.1	8.0	8.0	7.5	7.3	6.8	6.2	6.1	5.9	5.7	5.7	5.6	5.78
27	7.6	8.9	8.0	7.0	7.1	6.9	6.3	6.3	6.1	6.1	5.7	5.7	6.02
28	6.8	7.3	7.8	7.5	7.1	6.9	6.3	6.0	5.7	6.0	5.7	5.8	5.84
29	6.8	6.8	7.0	6.8	6.9	6.7	6.2	6.0	5.9	5.9	5.8	5.9	5.52
30	6.8	6.7	6.7	6.5	6.2	6.2	6.1	6.1	6.1	5.9	5.8	5.8	5.70
Hourly Means.	7.39	7.73	7.73	7.26	6.85	6.62	6.32	6.25	6.10	5.92	5.73	5.81	5.92

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	183	184	183	200	192	183	172	174	171	187	179	175	—
	2	184	185	177	182	182	183	183	195	201	198	196	193	—
	3	179	175	175	180	182	187	192	203	216	217	213	208	—
	4	180	182	191	185	187	188	196	211	222	225	220	211	—
	5	168	160	173	178	178	192	177	189	192	198	192	184	—
	6	182	180	182	182	181	182	181	192	195	195	200	193	—
	7	173	176	180	179	187	182	188	184	189	200	201	193	—
	8	165	169	175	171	175	172	180	192	202	214	211	206	—
	9	162	170	171	173	176	174	182	200	207	216	216	210	—
	10	184	183	189	186	187	187	195	202	205	212	211	208	
	11	190	190	189	193	192	201	209	216	230	239	256	235	—
	12	182	182	184	184	204	206	206	206	197	196	197	192	—
	13	187	187	187	191	194	195	200	203	212	215	211	205	—
	14	194	193	197	198	201	201	202	207	216	220	218	215	—
	15	192	194	196	197	199	202	212	222	232	238	236	228	—
	16	200	204	208	206	210	223	211	194	207	213	209	193	—
	17	176	175	211	197	186	195	206	220	218	230	212	193	—
	18	179	168	173	192	184	175	190	190	178	186	187	181	—
	19	168	177	171	166	165	170	176	184	192	192	191	182	—
	20	164	172	174	172	176	177	187	196	202	208	207	200	—
	21	172	176	177	175	182	183	195	208	214	214	211	206	—
	22	174	173	174	176	177	182	187	198	205	205	203	198	—
	23	172	173	174	176	179	182	187	196	201	201	197	195	—
	24	178	179	182	184	186	188	192	201	209	215	218	222	—
	25	189	189	192	191	192	195	196	201	211	223	225	219	—
	26	193	196	201	198	186	177	192	200	210	213	212	207	—
	27	199	196	201	201	203	210	199	195	209	213	211	207	—
	28	198	187	182	202	194	187	200	194	204	205	213	204	—
	29	191	184	185	183	183	189	192	192	196	195	195	191	—
	30	184	182	182	183	188	195	201	207	215	211	205	201	—
Hourly Means.		181.4	181.4	184.5	186.0	186.9	188.8	192.9	199.1	205.3	209.8	208.4	201.8	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	167	163	160	173	177	176	163	164	173	166	176	180	175.9
	2	194	189	183	187	187	179	177	178	177	191	178	174	185.5
	3	208	201	192	183	181	180	182	183	181	181	180	182	190.0
	4	201	192	182	177	181	187	183	182	173	168	180	171	190.6
	5	181	173	166	150	161	171	168	167	157	158	180	178	174.6
	6	184	176	163	168	166	162	163	176	171	187	191	165	179.9
	7	190	177	171	170	163	157	153	153	149	167	168	160	175.4
	8	202	188	176	163	171	173	173	171	169	164	158	163	179.3
	9	205	195	186	179	178	176	177	178	180	177	178	178	185.2
	10	203	198	194	191	189	185	182	183	182	183	189	190	192.4
	11	242	196	152	151	154	170	157	166	168	176	177	178	192.8
	12	191	193	191	187	187	185	181	182	184	183	185	186	190.5
	13	198	197	196	195	195	192	192	192	191	191	191	190	196.1
	14	208	206	201	199	197	194	194	191	191	187	188	191	200.4
	15	218	208	208	205	203	199	196	194	196	197	192	201	206.9
	16	183	172	170	166	162	159	163	170	171	161	173	168	187.3
	17	183	182	150	102	107	122	135	131	137	154	159	168	172.9
	18	158	168	160	156	156	144	170	159	159	159	175	165	171.3
	19	176	173	169	166	173	167	173	164	162	173	159	164	173.0
	20	187	177	168	168	170	169	170	168	166	173	173	181	179.4
	21	196	186	182	181	179	171	166	167	168	169	177	175	184.6
	22	192	181	177	177	171	167	163	164	160	164	170	172	179.6
	23	187	182	175	175	177	175	175	177	176	178	176	177	181.8
	24	212	201	196	190	187	183	184	184	185	189	187	187	193.3
	25	210	202	196	192	192	192	192	189	192	193	199	202	198.9
	26	200	191	182	175	173	174	175	182	182	187	191	194	191.3
	27	201	190	180	189	190	182	189	187	187	187	184	190	195.8
	28	193	192	185	188	173	169	176	170	187	177	179	182	189.2
	29	192	188	192	186	182	182	181	178	180	179	185	182	186.8
	30	192	185	183	182	184	182	185	187	184	187	187	188	190 8
Hourly Means.		195.1	187.4	179.5	175.7	175.5	174.1	174.6	174.6	174.6	176.9	179.5	179.4	186.4

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	387	385	386	377	387	391	414	424	412	390	373	369	—
	2	387	387	393	389	388	396	400	385	378	379	366	373	—
	3	379	380	379	376	376	374	373	368	362	360	360	359	—
	4	377	376	371	374	376	379	373	382	371	368	366	368	—
	5	398	399	388	385	386	385	394	390	390	382	377	380	—
	6	388	388	389	388	390	392	399	406	399	388	376	380	—
	7	394	391	388	387	384	389	399	404	399	381	359	351	—
	8	394	391	387	388	387	389	395	393	385	376	371	370	—
	9	400	393	392	391	388	388	390	387	382	370	352	360	—
	10	382	381	378	379	381	382	380	372	368	360	355	355	—
	11	381	382	384	379	379	379	377	361	345	345	330	334	—
	12	375	374	374	373	366	369	376	376	379	370	359	360	—
	13	371	371	372	371	370	372	376	398	389	382	376	373	—
	14	386	386	384	385	384	388	394	393	384	370	360	360	—
	15	382	382	381	381	381	381	384	382	375	371	363	363	—
	16	380	379	376	377	376	374	382	392	381	369	368	374	—
	17	387	390	369	382	386	385	385	381	375	359	354	359	—
	18	376	384	384	382	378	390	388	390	392	385	377	374	—
	19	388	382	385	389	390	390	395	392	378	367	360	360	—
	20	392	385	383	386	387	393	397	402	393	375	356	356	—
	21	393	391	389	389	387	391	395	396	390	381	368	365	—
	22	394	394	392	390	389	389	399	399	394	387	378	370	—
	23	393	393	391	391	388	390	395	395	388	381	377	366	—
	24	392	390	388	387	386	385	392	388	381	369	363	359	—
	25	390	389	387	387	387	387	394	396	389	382	377	373	—
	26	392	392	388	390	396	401	396	377	371	362	345	336	—
	27	368	370	370	370	370	363	371	372	366	362	359	352	—
	28	368	376	376	365	370	374	371	388	377	368	360	360	—
	29	379	383	386	385	384	386	385	401	388	376	361	352	—
	30	388	392	391	391	388	390	391	390	379	376	371	368	—
Hourly Means.		385.4	385.2	383.4	382.8	382.8	384.7	388.8	389.3	382.0	373.0	363.9	362.6	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	368	373	374	374	385	392	397	401	394	398	391	388	388.8
	2	370	371	371	370	374	382	383	382	383	376	381	382	381.1
	3	357	363	368	376	376	380	381	379	380	381	379	377	372.6
	4	376	388	399	402	398	390	391	394	399	403	395	397	384.1
	5	384	385	390	400	396	392	396	400	405	402	390	392	391.1
	6	379	383	392	396	399	399	399	392	396	388	388	400	391.4
	7	356	365	380	388	398	400	401	401	402	394	393	397	387.5
	8	368	376	385	400	396	393	392	394	396	400	404	401	388.8
	9	365	370	377	381	384	385	384	385	383	384	384	383	381.6
	10	352	355	366	375	380	383	384	383	383	384	381	381	374.2
	11	336	368	399	399	395	384	386	382	380	378	376	376	372.3
	12	367	368	369	371	374	374	374	373	373	372	371	371	371.2
	13	374	376	382	387	390	393	391	389	390	390	389	388	381.7
	14	361	363	370	375	384	387	387	388	389	390	387	385	380.8
	15	368	373	375	381	382	385	385	384	384	383	385	381	378.8
	16	381	385	386	388	394	399	396	392	390	398	393	395	384.4
	17	365	376	394	432	431	418	402	404	401	392	388	389	387.7
	18	374	366	376	381	388	399	391	393	394	393	382	388	384.4
	19	374	380	385	391	388	392	392	394	396	392	398	394	385.5
	20	363	374	388	395	396	394	395	398	398	395	394	389	386.8
	21	369	376	386	393	394	399	400	399	399	398	393	394	389.0
	22	375	381	393	395	399	400	401	401	402	399	395	394	392.1
	23	365	372	381	393	392	394	393	392	393	393	393	393	387.6
	24	361	366	369	376	392	393	392	392	391	389	391	391	382.6
	25	373	385	392	397	396	394	394	395	392	392	390	388	388.6
	26	338	344	352	363	370	376	376	370	371	370	369	368	371.4
	27	353	359	370	366	368	376	372	374	372	372	374	370	367.5
	28	366	368	378	388	396	398	392	393	385	388	390	387	378.4
	29	356	359	371	380	384	389	393	394	394	393	390	394	381.8
	30	375	385	387	389	391	392	392	389	390	388	388	385	386.1
Hourly Means.		365.6	371.8	380.2	386.7	389.7	391.1	390.4	390.2	390.2	389.2	387.4	387.3	382.7

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°40′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER. 1	6.0	5.8	6.0	5.8	5.6	4.4	3.7	4.4	5.1	5.8	6.6	6.9	—
2	5.9	6.0	6.0	5.8	5.7	4.7	3.7	3.4	4.0	5.5	6.8	8.4	—
3	5.6	5.6	5.5	5.3	5.0	3.7	2.3	2.7	3.9	5.2	6.4	7.7	—
4	5.7	5.6	5.6	5.7	5.5	5.5	3.9	2.8	2.8	4.1	5.2	6.5	—
5	5.8	5.7	5.7	5.3	5.0	4.2	2.2	2.4	3.4	4.4	5.6	6.8	—
6	5.6	5.3	5.5	5.3	4.9	3.4	2.2	1.6	2.3	3.1	4.2	5.3	—
7	5.5	5.7	5.6	5.3	5.2	3.7	3.1	3.4	3.4	3.7	4.4	5.3	—
8	5.7	5.5	5.5	5.5	5.3	4.8	3.4	2.8	2.8	3.4	4.3	5.8	—
9	3.7	5.3	5.2	5.2	5.1	3.6	2.6	2.5	2.9	3.7	4.4	5.3	—
10	5.6	5.6	5.5	5.5	5.5	4.8	4.4	4.3	4.3	4.5	4.9	5.7	—
11	5.6	5.6	5.7	5.5	5.1	4.4	4.0	4.1	4.0	4.5	5.5	5.9	—
12	5.5	5.7	5.6	5.5	5.5	4.4	3.6	3.6	4.4	5.5	5.6	5.8	—
13	5.5	5.6	5.5	4.9	4.9	4.8	3.6	4.2	4.9	6.0	6.3	6.7	—
14	5.5	5.3	5.1	5.0	4.8	4.1	2.9	3.5	3.4	4.4	5.5	6.6	—
15	5.1	5.2	4.9	3.9	4.1	4.2	3.7	4.0	4.9	5.0	5.7	7.1	—
16	4.7	5.2	5.2	5.0	5.0	4.7	3.7	3.5	4.3	4.9	5.6	6.8	—
17	5.2	5.3	5.0	5.5	5.3	4.7	4.2	4.1	4.3	4.8	5.3	5.9	—
18	5.3	5.5	5.5	5.2	5.1	4.5	3.7	3.1	3.2	3.5	4.3	5.3	—
19	5.2	5.5	5.3	5.2	4.8	4.2	3.6	4.2	4.2	4.2	5.2	6.5	—
20	5.5	5.5	5.5	5.1	5.1	4.0	3.4	3.2	3.3	3.9	4.4	5.8	—
21	5.0	4.9	4.9	4.7	4.7	4.2	3.6	3.4	3.2	3.5	4.2	6.0	—
22	4.9	4.9	4.9	4.8	4.8	4.5	3.3	1.8	0.8	1.4	3.3	5.5	—
23	5.1	5.1	4.9	4.7	4.5	4.2	3.6	4.3	3.9	3.9	4.8	6.3	—
24	5.2	5.1	5.1	4.9	4.7	4.4	4.8	4.9	3.2	3.4	2.8	5.7	—
25	5.1	4.8	4.4	4.5	4.4	3.9	3.9	4.4	4.3	4.5	4.5	4.9	—
26	5.7	5.7	5.5	5.3	5.1	4.4	3.6	2.4	4.0	4.2	4.9	4.1	—
27	5.3	5.7	5.6	6.0	5.5	5.3	5.0	5.3	5.1	5.0	4.9	5.2	—
28	5.3	5.7	5.5	5.5	5.2	5.6	5.0	4.8	4.8	4.7	4.7	5.6	—
29	5.1	5.1	5.1	5.0	4.9	4.8	4.7	5.5	5.1	5.5	5.0	5.3	—
30	5.1	5.1	5.0	4.7	4.7	4.7	4.2	4.5	4.8	4.4	4.1	4.5	—
31	4.8	4.7	4.3	4.3	3.7	3.5	3.4	3.6	4.5	4.5	4.4	5.3	—
Hourly Means.	5.32	5.40	5.31	5.16	4.99	4.40	3.65	3.64	3.85	4.36	4.96	5.95	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
DECEMBER. 1	7.4	8.1	7.6	7.1	6.7	6.6	6.4	6.4	6.3	6.0	5.9	5.8	6.10
2	8.5	8.1	7.1	6.8	6.9	6.1	6.0	6.0	6.0	5.9	5.7	5.7	6.03
3	8.4	8.3	8.1	7.6	7.1	6.8	6.4	6.6	5.7	5.6	5.7	5.9	5.88
4	7.9	8.4	8.2	7.9	7.2	6.8	6.4	6.0	5.8	5.7	5.7	5.8	5.86
5	7.9	8.1	7.9	7.3	6.7	6.1	6.0	6.0	6.0	5.0	5.6	5.7	5.62
6	6.8	8.1	7.9	6.9	6.6	6.3	5.8	5.8	5.9	5.6	5.3	5.0	5.20
7	6.4	7.1	7.9	7.9	7.1	6.8	6.3	5.9	5.9	5.7	5.7	5.7	5.53
8	7.2	8.2	8.2	8.0	7.2	6.7	6.1	6.1	6.1	5.7	5.1	5.3	5.61
9	6.4	6.6	7.1	7.7	7.4	6.8	6.8	6.1	6.0	5.9	5.7	5.6	5.32
10	6.5	6.8	7.1	6.8	6.6	6.0	6.0	6.0	5.9	5.7	5.6	5.7	5.64
11	6.5	6.6	6.6	6.5	6.4	6.1	6.0	5.8	5.9	5.7	5.6	5.6	5.55
12	6.5	6.5	6.6	6.7	6.3	6.0	5.7	5.8	5.8	5.8	5.7	5.7	5.58
13	7.1	6.8	6.8	6.8	6.6	6.0	6.1	5.7	5.9	5.9	5.7	5.6	5.75
14	7.1	7.1	7.2	7.2	6.8	6.1	5.7	5.8	5.6	5.6	4.9	4.3	5.40
15	7.7	7.3	6.8	7.3	7.7	6.9	6.4	5.7	6.0	4.5	5.5	5.3	5.62
16	7.4	7.5	7.6	7.4	6.8	5.9	5.5	4.8	5.6	5.5	5.2	5.2	5.54
17	6.9	7.4	6.9	6.8	6.7	6.3	5.9	5.9	5.7	5.5	5.6	5.7	5.62
18	6.7	7.1	7.5	7.1	6.6	6.3	6.0	5.6	5.7	5.5	5.5	5.7	5.40
19	7.1	7.9	7.3	7.3	6.8	6.3	6.3	6.1	5.8	5.6	5.6	5.7	5.66
20	7.2	8.9	8.5	7.6	6.8	6.1	6.1	6.0	5.8	5.7	5.2	5.1	5.57
21	6.8	7.4	6.8	6.7	6.8	6.1	5.8	5.8	5.8	5.5	5.1	5.1	5.25
22	6.7	6.9	6.8	6.6	6.9	6.6	6.1	5.9	5.7	5.3	5.2	5.2	4.95
23	7.7	8.1	8.2	7.6	7.1	6.3	6.3	6.0	5.9	5.5	5.1	5.3	5.60
24	7.1	6.5	6.7	6.8	6.5	6.6	6.7	6.5	5.2	5.2	5.2	5.1	5.35
25	5.7	6.6	6.7	6.8	6.6	5.9	6.0	5.9	5.8	5.7	5.7	5.7	5.28
26	5.8	7.2	7.3	7.2	6.8	5.9	5.8	5.6	4.9	5.5	5.3	5.3	5.31
27	6.3	7.1	7.3	7.1	6.5	6.1	5.8	5.8	5.7	5.7	5.6	5.6	5.77
28	6.0	5.7	6.0	6.3	6.1	5.7	5.6	5.6	5.5	5.5	5.5	5.3	5.47
29	5.1	5.5	5.7	6.0	6.0	6.4	5.9	5.8	5.7	5.6	5.3	5.2	5.39
30	5.9	6.5	6.5	6.3	5.9	5.9	5.9	5.9	5.6	5.5	5.0	4.9	5.23
31	5.7	6.4	6.7	6.8	6.4	6.0	5.7	5.7	5.7	5.2	5.2	4.8	5.05
Hourly Means.	6.85	7.25	7.21	7.06	6.73	6.27	6.05	5.89	5.77	5.56	5.44	5.41	5.52

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36900 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER.	1	189	196	186	182	182	185	196	198	201	201	205	204	—
	2	187	188	188	191	193	199	211	224	234	236	235	220	—
	3	181	180	183	182	183	193	198	202	207	205	206	205	—
	4	179	178	177	187	185	188	196	197	208	205	199	196	—
	5	177	178	185	182	189	185	200	204	216	211	208	200	—
	6	182	177	187	188	192	192	194	197	196	200	201	201	—
	7	173	174	180	177	179	179	185	188	198	201	206	202	—
	8	178	180	183	178	178	184	178	183	195	196	201	193	—
	9	189	160	164	167	169	175	181	170	168	171	174	178	—
	10	180	174	175	179	187	192	193	197	198	198	201	191	—
	11	178	174	182	178	179	182	183	187	193	197	198	199	—
	12	179	180	179	180	180	183	188	192	199	204	204	205	—
	13	192	193	187	201	194	200	200	205	216	219	219	206	—
	14	192	181	182	178	184	196	196	193	202	205	207	187	—
	15	178	173	180	196	189	191	199	202	203	200	207	188	—
	16	189	173	180	186	185	187	183	183	192	199	198	193	—
	17	180	182	184	186	186	187	192	187	191	192	197	196	—
	18	195	194	190	190	188	191	197	205	206	200	200	196	—
	19	190	187	187	187	192	194	197	197	206	210	207	201	—
	20	183	183	183	186	191	192	197	202	207	210	209	206	—
	21	186	187	188	189	189	192	195	196	201	206	211	208	—
	22	179	175	175	176	178	184	186	184	192	199	207	202	—
	23	188	187	188	187	189	191	192	193	206	211	216	220	—
	24	191	192	193	192	194	197	204	214	277	263	213	198	—
	25	165	181	172	202	189	198	193	196	201	195	192	187	—
	26	176	177	184	183	187	195	206	216	207	219	221	221	—
	27	179	183	176	168	177	182	196	201	211	216	214	211	—
	28	180	178	178	183	182	185	187	184	190	194	195	192	—
	29	186	187	190	186	194	195	209	207	211	217	222	216	—
	30	201	196	200	196	201	196	200	211	217	220	225	229	—
	31	191	187	202	202	205	207	206	205	207	212	214	211	—
Hourly Means.		183.6	181.8	183.5	185.3	186.8	190.2	194.5	197.4	205.0	206.8	206.8	202.0	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
DECEMBER.	1	193	182	182	187	191	189	189	189	186	187	184	184	190.3
	2	204	195	193	190	168	168	182	179	180	182	178	183	196.2
	3	206	204	201	200	189	187	191	187	181	177	173	174	191.5
	4	182	185	183	185	182	170	174	177	179	177	177	177	185.4
	5	195	192	183	177	175	174	177	182	178	194	180	173	188.1
	6	181	170	165	168	173	176	187	173	160	163	170	188	182.5
	7	192	178	175	177	179	178	179	181	182	184	183	179	183.7
	8	192	177	170	158	149	138	125	121	97	111	125	139	163.7
	9	174	169	170	172	165	169	163	173	173	173	170	177	171.4
	10	192	182	181	179	181	180	177	178	177	177	177	173	184.1
	11	195	190	189	185	182	182	180	182	180	180	181	181	184.9
	12	199	192	191	184	182	182	184	188	190	187	187	187	188.6
	13	196	193	194	197	208	201	188	183	177	176	188	185	196.6
	14	190	182	186	187	197	181	181	178	204	192	182	192	189.8
	15	168	154	169	165	167	156	166	176	167	187	173	173	180.3
	16	193	188	187	179	179	179	177	191	184	176	172	184	184.9
	17	189	186	186	188	187	186	187	186	182	187	188	188	187.5
	18	187	188	187	186	187	183	183	186	186	187	182	182	190.7
	19	195	195	196	187	182	173	180	178	181	186	184	182	190.6
	20	203	193	192	190	185	182	182	182	184	182	182	184	191.3
	21	201	199	197	193	189	185	185	181	175	174	172	173	190.5
	22	197	187	180	169	172	177	179	183	186	189	188	188	184.7
	23	219	223	212	203	195	196	195	189	188	192	188	190	198.3
	24	173	172	168	182	186	175	130	138	164	170	158	163	187.8
	25	183	182	178	178	166	172	161	159	161	165	168	172	179.8
	26	203	192	184	182	182	182	182	182	169	173	168	181	190.5
	27	201	196	185	180	179	178	177	177	177	177	177	181	187.5
	28	192	187	188	187	186	181	182	179	181	182	182	183	184.9
	29	209	196	186	186	188	187	190	192	192	193	196	201	197.0
	30	226	223	202	195	192	187	183	177	182	184	184	186	200.5
	31	211	213	208	200	209	215	213	211	195	196	182	186	203.7
Hourly Means.		194.9	189.2	186.1	183.7	182.3	179.6	178.4	178.6	177.4	179.4	177.4	180.3	188.0

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

DECEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	410	407	415	418	419	420	412	418	415	407	407	407	—
2	420	419	419	416	416	419	412	390	389	394	394	402	—
3	413	413	411	412	412	415	413	412	399	387	380	379	—
4	413	412	412	407	409	410	415	426	415	405	401	391	—
5	421	420	415	416	415	422	418	413	406	409	407	400	—
6	424	426	420	419	419	428	433	424	425	420	414	408	—
7	429	428	423	426	424	430	426	428	418	412	412	409	—
8	431	431	427	428	430	431	436	438	430	423	414	413	—
9	419	431	431	430	432	436	433	447	438	427	423	415	—
10	429	434	434	432	426	426	424	416	418	420	415	421	—
11	429	429	424	427	427	427	429	432	420	412	401	402	—
12	426	426	426	425	426	429	431	427	408	401	401	401	—
13	424	423	427	421	424	424	430	401	393	389	388	389	—
14	405	411	410	411	407	405	404	396	386	385	380	385	—
15	407	408	403	395	397	399	396	396	391	394	390	394	—
16	397	407	404	399	401	402	407	402	391	379	371	373	—
17	399	399	395	395	395	396	401	396	389	378	373	370	—
18	388	388	389	390	391	390	389	401	394	390	385	378	—
19	404	407	406	407	404	405	402	406	397	394	388	380	—
20	410	410	410	408	407	411	406	401	389	383	383	383	—
21	412	412	410	408	409	410	410	410	404	390	381	374	—
22	414	415	414	413	410	408	413	419	408	395	383	385	—
23	418	419	416	417	415	415	408	393	383	382	383	377	—
24	412	412	408	408	407	407	401	368	333	340	377	384	—
25	393	383	388	371	380	381	391	400	388	389	390	388	—
26	389	389	384	385	386	386	384	386	378	363	364	354	—
27	394	391	397	401	393	391	390	396	389	384	376	373	—
28	399	401	399	399	399	397	395	395	389	377	368	366	—
29	397	396	395	396	393	394	389	384	386	377	373	377	—
30	386	389	388	390	386	390	390	379	373	368	366	359	—
31	386	388	380	380	381	383	384	377	366	365	354	350	—
Hourly Means.	409.6	410.5	409.0	408.1	407.7	409.3	408.8	405.7	397.0	391.6	388.5	386.7	—

DECEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	405	404	408	413	417	422	421	421	423	421	421	421	414.7
2	417	423	426	424	432	430	419	418	415	414	415	413	414.0
3	383	397	402	407	413	413	415	416	424	424	424	418	407.6
4	385	385	390	400	415	427	424	423	423	424	425	423	410.8
5	394	399	402	412	422	424	423	423	424	420	425	429	415.0
6	407	402	409	415	418	421	420	428	437	436	432	421	421.1
7	411	413	410	413	420	427	430	430	429	427	429	432	422.3
8	412	420	427	437	442	450	457	459	471	467	455	444	436.4
9	410	412	409	415	426	432	437	432	432	435	437	434	428.0
10	420	420	426	427	427	428	427	426	429	429	429	432	425.6
11	408	414	421	423	426	428	429	426	426	426	426	426	422.4
12	404	404	408	418	424	426	425	424	423	424	425	425	419.0
13	397	401	393	393	393	401	409	412	415	415	407	407	407.3
14	382	384	387	390	393	406	407	405	394	402	406	401	397.6
15	410	418	411	413	413	424	413	405	409	401	408	409	404.3
16	377	385	388	391	397	402	404	397	400	405	407	397	395.1
17	373	378	378	383	390	394	396	397	399	395	394	394	389.9
18	379	384	383	390	401	407	409	409	410	408	412	412	394.9
19	382	388	401	401	409	415	413	414	413	413	412	413	403.1
20	386	390	395	399	407	416	415	415	414	415	415	413	403.4
21	381	386	390	393	399	411	412	415	419	420	421	419	404.0
22	399	418	423	420	417	413	417	418	418	416	418	420	414.4
23	378	382	393	407	413	415	415	415	416	414	416	413	404.3
24	407	416	405	383	379	383	420	411	398	391	401	394	393.5
25	390	390	384	383	393	401	397	398	397	394	393	391	389.7
26	357	359	366	377	390	394	394	394	404	401	402	395	382.5
27	369	377	389	400	405	405	403	401	401	401	400	399	392.7
28	370	377	380	385	394	402	401	401	399	398	399	399	391.2
29	386	391	395	391	391	393	392	391	389	388	388	386	389.1
30	353	357	377	388	389	391	396	398	393	389	389	389	382.2
31	357	357	360	366	374	377	378	381	393	391	398	395	375.9
Hourly Means.	390.0	394.5	397.9	401.8	407.4	412.2	413.5	413.0	414.1	413.0	413.8	411.7	404.8

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY. 1	3	3	5	3	3	3	— 2	— 8	— 14	— 15	— 1	8	—
2	0	0	— 5	1	— 1	— 3	0	— 2	1	6	9	6	—
3	0	0	3	— 1	1	4	7	1	— 7	— 13	— 10	0	—
4	0	1	3	3	4	10	12	2	— 8	— 11	— 15	— 12	—
5	2	2	5	5	7	8	10	4	— 4	— 9	— 14	— 16	—
6	— 2	— 2	— 1	— 1	0	4	4	8	7	— 6	— 6	— 12	—
7	— 1	— 4	— 4	— 3	— 2	— 4	— 5	1	2	0	2	1	—
8	— 1	— 8	— 7	— 7	— 6	— 4	2	10	18	8	5	— 3	—
9	— 8	— 4	0	— 1	0	— 4	— 13	— 2	5	5	5	— 3	—
10	— 3	— 3	— 2	— 4	— 6	— 9	— 4	5	8	8	7	8	—
11	0	0	0	— 3	— 5	— 3	— 1	0	— 4	0	6	9	—
12	— 4	— 5	— 3	— 3	— 4	— 9	— 4	3	4	9	13	7	—
13	7	5	10	8	5	5	2	0	4	0	— 20	— 16	—
14	— 7	— 9	— 9	— 8	— 7	4	9	5	2	2	— 6	— 8	—
15	0	— 6	— 3	— 1	— 1	1	4	— 3	— 8	— 3	5	2	—
16	— 1	— 5	— 2	— 3	— 6	— 4	2	9	7	3	— 1	— 6	—
17	2	0	0	1	3	— 1	— 6	— 7	— 7	— 1	3	11	—
18	— 6	— 5	— 2	— 3	2	6	14	13	9	— 2	— 8	— 5	—
19	3	3	4	4	5	2	— 2	— 3	— 3	— 1	— 6	— 10	—
20	— 5	— 6	— 2	— 3	— 1	0	1	8	2	0	0	5	—
21	— 1	0	0	0	0	3	2	2	— 2	— 8	— 5	— 6	—
22	1	1	— 1	1	0	2	4	2	— 1	2	— 12	— 18	—
23	5	4	1	0	— 4	— 4	— 1	6	8	3	— 5	— 8	—
24	— 7	— 2	— 11	— 1	— 7	— 2	5	5	2	— 6	— 3	— 6	—
25	— 2	0	— 2	3	— 4	— 5	2	2	4	0	— 12	— 3	—
26	2	6	4	— 2	— 1	— 4	— 5	— 2	1	2	6	10	—
27	4	8	2	3	4	0	— 1	— 10	— 4	3	16	12	—
28	4	10	3	6	4	— 6	— 9	— 15	— 4	3	5	4	—
29	2	4	2	0	1	— 2	— 13	— 7	8	19	21	16	—
30	4	4	6	6	7	5	— 7	— 14	— 14	— 7	5	10	—
31	3	1	5	3	4	5	— 9	— 17	— 15	2	19	20	—
Hourly Amount.	90	111	107	91	105	126	162	176	187	157	251	261	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JANUARY. 1	2	— 3	— 3	— 1	— 1	— 2	— 2	— 2	— 4	— 4	— 1	1	94
2	10	6	1	1	— 3	— 1	— 4	— 6	— 2	— 1	0	1	70
3	4	2	8	4	1	— 3	— 2	— 2	0	— 1	— 2	2	78
4	— 12	— 1	5	4	— 1	1	1	2	4	2	2	2	118
5	— 13	— 5	6	9	7	3	0	0	1	0	— 3	— 2	135
6	— 6	— 7	2	7	5	6	6	5	5	4	— 1	— 1	108
7	3	0	— 1	— 2	— 1	1	1	0	1	1	— 4	— 3	47
8	— 2	0	1	— 2	11	4	5	4	15	1	— 6	— 6	136
9	— 16	— 20	— 14	— 1	9	12	9	4	4	3	2	0	144
10	0	— 7	— 9	— 7	— 3	2	6	1	4	5	5	1	117
11	7	— 3	— 6	3	7	4	0	0	0	0	— 1	— 3	65
12	6	3	— 1	0	— 1	— 3	— 3	— 1	0	1	5	6	98
13	— 17	— 10	2	10	14	14	4	2	— 5	— 13	— 2	— 4	179
14	— 5	3	8	6	2	4	— 13	3	1	4	2	2	129
15	5	5	6	8	1	— 2	0	— 3	— 3	— 2	— 6	— 7	85
16	3	9	14	5	0	— 8	— 4	— 3	0	1	0	3	99
17	14	16	10	5	2	— 6	— 8	— 8	— 14	— 14	— 12	— 7	158
18	6	7	1	— 2	— 7	— 2	— 2	1	3	3	4	2	115
19	— 8	0	0	3	4	2	4	0	1	3	— 1	— 4	76
20	7	6	5	2	— 1	— 3	— 1	— 2	— 1	0	0	0	61
21	0	4	8	4	1	— 1	— 1	0	— 3	1	2	0	54
22	— 6	— 3	— 2	— 2	— 3	— 2	5	6	3	1	1	5	84
23	— 6	2	3	11	11	13	2	— 1	— 7	— 6	7	— 8	126
24	— 4	— 7	— 6	— 5	1	2	8	6	0	1	1	5	103
25	11	15	3	2	0	— 6	— 1	— 1	— 5	— 1	— 1	1	86
26	5	— 4	— 9	— 11	— 3	— 1	3	1	1	2	0	2	87
27	1	— 9	— 13	— 16	— 14	— 3	3	— 1	1	5	3	7	143
28	— 2	— 5	— 6	— 7	— 3	— 1	— 2	1	2	3	4	3	112
29	6	3	— 4	— 15	— 17	— 9	— 7	— 4	— 1	— 1	1	2	165
30	4	— 4	— 2	— 4	— 5	— 5	— 2	2	5	4	1	3	130
31	8	8	— 4	— 10	— 10	— 7	— 3	— 6	— 5	— 1	1	3	169
Hourly Amount.	199	177	163	169	149	133	112	78	101	89	81	96	3371

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY. 1	— 1	0	1	1	— 1	2	— 2	0	1	7	5	3	—
2	3	— 3	— 7	— 3	— 4	— 4	— 1	— 2	— 4	— 1	10	13	—
3	— 2	— 1	— 6	— 3	— 6	— 7	— 1	— 4	— 6	— 3	7	6	—
4	— 3	— 6	— 5	— 7	— 11	— 13	— 9	— 8	— 11	— 7	5	8	—
5	— 5	— 5	— 5	— 5	— 2	— 4	— 5	— 9	— 5	— 2	6	12	—
6	4	3	1	3	8	0	— 8	— 4	7	— 32	3	— 2	—
7	0	1	6	6	2	2	2	— 9	— 4	3	5	8	—
8	26	21	27	18	9	22	6	— 17	— 10	— 21	— 9	— 9	—
9	6	2	10	12	15	13	24	2	— 4	— 6	— 5	5	—
10	— 4	— 4	— 6	— 4	— 4	— 4	— 2	— 2	— 2	6	6	9	—
11	0	— 7	— 3	2	0	— 5	— 7	— 7	— 5	3	6	6	—
12	— 4	— 7	— 6	— 3	0	— 1	6	5	— 1	— 4	— 4	8	—
13	5	1	— 3	7	9	13	25	16	— 4	— 14	— 17	4	—
14	— 11	— 6	5	— 10	— 1	— 3	— 7	— 4	— 8	4	3	1	—
15	— 8	24	4	8	— 1	— 1	— 5	— 6	4	9	6	— 12	—
16	— 7	— 8	— 8	— 4	— 6	— 5	0	0	5	13	4	— 1	—
17	— 2	— 2	— 3	1	1	5	10	7	7	12	3	— 3	—
18	4	0	— 1	— 5	— 8	— 8	— 8	— 9	— 3	7	10	— 3	—
19	1	— 2	— 2	— 2	3	1	1	— 3	2	12	6	2	—
20	1	— 6	— 9	— 8	— 10	— 11	— 16	— 14	— 6	2	— 1	5	—
21	— 2	— 4	— 4	— 1	— 3	— 5	— 9	— 11	— 3	— 1	6	9	—
22	1	— 4	5	— 6	— 3	— 3	— 2	2	5	— 1	— 6	— 6	—
23	4	4	2	2	5	7	2	0	— 8	— 7	— 12	1	—
24	— 5	4	— 15	— 8	16	13	— 1	17	10	— 4	— 23	— 7	—
25	7	4	3	5	— 4	— 7	4	11	5	0	— 9	— 11	—
26	— 8	4	13	7	1	0	— 1	5	4	— 4	1	— 1	—
27	— 13	— 4	5	— 7	0	— 5	4	16	12	9	0	— 13	—
28	— 5	14	2	— 4	0	9	1	2	— 1	— 5	— 8	— 2	—
29	6	— 5	0	4	1	4	15	17	10	4	— 12	— 30	—
30	7	— 4	— 2	— 2	— 4	— 2	— 2	4	3	5	6	1	—
31	— 3	— 5	— 4	— 1	— 4	— 3	— 4	7	18	22	11	4	—
Hourly Amount.	158	165	173	159	142	182	190	220	178	230	215	205	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JANUARY. 1	— 1	— 8	— 11	— 8	4	9	8	— 4	— 1	— 3	— 5	— 7	93
2	8	5	5	— 2	— 4	— 1	3	6	8	2	0	3	102
3	9	0	— 5	— 4	6	7	6	4	— 2	2	— 1	— 6	104
4	10	6	7	19	11	12	6	1	— 2	2	2	— 1	172
5	7	4	0	— 1	1	4	3	6	3	4	5	5	108
6	11	10	5	9	— 3	— 18	— 27	— 22	— 15	— 13	10	— 5	223
7	4	7	7	4	3	5	5	5	8	9	22	25	152
8	— 3	— 3	— 5	— 18	— 25	— 40	— 46	— 10	— 43	— 39	— 13	— 12	452
9	3	5	3	7	8	6	7	6	5	1	— 2	— 4	161
10	3	— 2	— 6	— 6	— 1	6	3	4	5	1	— 2	— 2	94
11	7	7	9	7	5	4	— 5	— 10	— 4	— 5	— 5	— 6	125
12	3	— 8	— 8	— 9	— 4	1	3	4	11	12	0	4	116
13	9	18	14	2	— 14	— 32	— 32	3	— 17	35	— 18	— 7	319
14	3	3	5	— 5	— 4	1	19	6	13	6	4	0	132
15	— 5	— 12	— 11	— 16	0	4	7	2	7	— 4	4	2	162
16	2	3	— 3	0	— 7	0	2	— 1	1	1	6	3	90
17	— 5	— 8	— 9	— 4	— 3	— 2	0	— 3	9	10	6	— 1	116
18	— 10	1	8	10	7	— 4	— 8	— 14	— 4	1	2	2	137
19	0	4	2	1	0	0	— 1	1	3	1	0	1	51
20	10	13	14	10	6	4	3	3	7	5	2	0	166
21	11	8	1	1	5	9	10	10	— 5	— 18	— 4	1	141
22	7	— 2	4	3	0	5	— 3	— 5	1	6	1	2	83
23	11	21	13	8	— 7	1	25	1	— 23	— 35	— 10	— 6	215
24	— 2	— 5	— 3	2	— 1	— 8	6	6	— 1	10	5	4	176
25	— 6	0	— 4	3	5	4	— 11	— 10	7	2	3	— 7	132
26	— 5	— 4	— 1	— 1	3	7	3	4	3	6	— 6	— 10	102
27	— 21	— 5	1	— 1	6	3	0	8	6	— 2	— 2	18	161
28	— 9	— 3	0	— 1	— 6	2	0	0	3	2	— 1	— 2	82
29	— 32	— 24	— 13	0	5	0	11	5	8	15	6	4	231
30	— 10	— 13	— 9	— 7	— 1	2	5	3	5	3	— 4	— 3	107
31	— 7	— 13	— 11	— 5	0	5	4	3	7	4	— 1	8	154
Hourly Amount.	234	225	197	174	155	206	272	170	237	259	152	161	4659

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY. 1	2	0	1	0	3	6	9	14	3	— 3	— 14	— 4	—
2	— 6	— 2	2	— 4	— 3	— 4	— 5	4	0	— 3	— 2	— 2	—
3	— 2	— 2	— 1	— 2	— 2	— 2	— 2	10	13	6	— 8	— 6	—
4	6	6	7	7	11	10	16	4	12	11	7	2	—
5	3	1	1	— 1	— 2	— 3	— 2	0	— 2	— 6	— 6	— 1	—
6	— 5	— 4	— 3	— 4	— 7	— 8	4	9	11	9	6	2	—
7	0	1	0	— 1	2	4	2	— 8	— 1	— 3	— 4	— 6	—
8	— 15	— 12	— 13	— 8	— 6	— 22	— 20	— 9	— 6	17	12	22	—
9	— 14	— 14	— 14	— 15	— 12	— 6	— 9	— 8	— 9	— 7	— 3	— 2	—
10	2	2	3	0	0	— 2	— 13	— 17	— 12	— 3	4	10	—
11	2	5	3	1	3	4	1	— 3	0	— 5	— 9	— 6	—
12	— 1	— 1	0	— 2	1	3	— 5	— 3	1	3	4	— 1	—
13	— 1	1	1	— 3	— 3	— 10	— 15	— 14	— 4	26	12	8	—
14	4	6	— 13	3	— 8	— 5	— 8	4	6	— 6	0	— 1	—
15	9	— 12	4	2	5	6	13	15	12	— 5	— 15	— 4	—
16	6	7	1	— 1	0	— 3	— 11	— 3	— 2	— 1	4	5	—
17	3	7	9	7	8	11	5	7	— 3	— 13	— 7	— 26	—
18	— 3	— 3	— 6	— 7	— 4	— 9	— 7	15	14	1	— 1	— 3	—
19	— 6	— 2	1	1	0	2	8	11	11	0	5	7	—
20	4	8	8	6	4	1	1	— 4	— 4	— 6	5	— 6	—
21	1	4	6	3	6	5	9	— 1	3	7	5	1	—
22	— 6	— 6	— 12	— 6	— 11	— 12	— 8	0	— 5	8	24	11	—
23	— 4	2	3	4	3	4	— 2	— 9	0	— 1	3	— 4	—
24	11	3	15	5	— 16	— 8	— 3	— 15	— 6	4	9	— 12	—
25	— 2	2	6	2	8	7	— 4	— 5	3	11	21	0	—
26	4	— 2	— 5	0	7	10	10	9	10	14	— 9	— 10	—
27	10	4	— 2	6	1	3	2	— 9	— 11	— 18	— 11	10	—
28	— 1	— 11	0	6	5	6	11	10	9	9	3	— 5	—
29	3	8	3	1	3	7	3	— 9	— 17	— 10	— 6	9	—
30	— 6	— 1	— 2	— 4	— 2	1	8	11	1	— 2	— 9	0	—
31	5	6	5	5	7	4	5	— 10	— 26	— 42	— 23	6	—
Hourly Amount.	147	145	150	117	153	188	221	250	217	260	251	192	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JANUARY. 1	2	7	1	— 3	— 5	— 9	— 6	1	3	1	— 1	— 1	99
2	2	1	6	10	8	0	— 3	— 3	— 5	— 1	— 1	— 3	80
3	— 5	— 3	— 1	2	— 5	— 5	— 4	— 2	1	0	4	7	95
4	— 10	— 14	— 17	— 17	— 8	— 8	— 3	— 1	2	0	3	4	186
5	1	5	0	— 2	— 1	1	2	0	0	— 1	0	— 2	43
6	— 2	3	— 5	— 4	4	11	13	9	7	5	— 8	3	146
7	— 7	— 3	5	5	4	— 2	— 1	— 2	— 5	— 5	— 7	— 13	91
8	23	22	19	24	23	29	26	5	12	10	— 1	— 5	361
9	10	11	2	— 6	— 8	— 3	1	1	2	1	2	2	162
10	12	13	6	3	— 1	— 6	— 2	— 1	— 5	— 4	0	3	124
11	1	9	1	— 7	— 3	1	7	6	4	3	— 1	0	85
12	— 6	0	— 1	— 5	— 2	— 1	— 2	— 1	— 1	— 3	1	— 4	52
13	— 6	— 11	— 17	3	13	36	28	1	3	— 9	11	— 8	244
14	— 4	— 13	— 15	— 1	2	0	— 3	— 1	— 6	— 2	3	8	122
15	— 2	3	7	3	— 11	— 14	— 12	— 11	— 3	7	0	4	179
16	2	— 3	7	8	7	6	— 3	— 1	— 5	— 4	— 6	1	97
17	— 14	— 5	— 3	— 4	— 1	1	3	5	— 3	— 8	— 5	2	160
18	— 1	1	11	10	13	11	9	8	1	— 4	— 5	— 3	150
19	— 11	— 19	— 16	— 15	— 14	— 4	0	0	0	1	2	5	141
20	— 7	— 2	7	8	9	5	1	— 1	— 6	— 4	— 2	1	110
21	— 17	— 25	— 17	— 6	— 1	0	— 3	— 5	5	12	— 1	— 4	147
22	9	11	14	18	12	— 3	— 3	— 3	— 8	— 8	— 5	— 3	206
23	— 10	— 20	— 11	— 16	2	— 1	— 13	1	26	26	18	5	188
24	— 6	2	5	— 5	— 10	— 2	— 6	1	3	— 3	— 2	1	153
25	— 14	— 16	— 3	— 5	— 4	0	7	7	— 6	— 3	— 1	4	141
26	— 4	2	— 11	— 13	— 16	— 14	— 5	— 3	— 1	4	7	9	179
27	19	5	7	10	3	— 3	— 2	— 2	— 4	0	— 2	— 14	158
28	4	— 14	— 12	— 12	— 9	— 9	— 4	— 1	— 1	0	3	3	148
29	7	12	8	2	— 3	— 4	— 7	— 1	— 3	— 6	— 1	— 1	134
30	12	16	7	8	0	— 6	— 7	— 5	— 5	— 1	3	5	122
31	24	24	18	10	3	— 2	— 3	0	— 4	— 3	— 2	— 4	241
Hourly Amount.	254	295	260	245	205	197	189	89	140	139	108	132	4544

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY. 1	3	4	7	4	2	— 4	— 11	— 8	0	— 1	1	— 5	—
2	2	3	4	2	2	— 1	— 10	— 9	— 3	0	6	8	—
3	8	6	7	3	2	3	4	3	— 9	— 14	— 5	3	—
4	— 3	— 2	— 3	— 2	— 2	1	— 1	4	6	1	7	4	—
5	— 3	— 3	— 1	0	0	5	7	9	5	2	— 8	— 6	—
6	— 2	— 2	— 4	— 4	— 3	3	9	11	8	— 1	— 11	— 12	—
7	— 2	— 3	— 4	— 3	— 3	— 1	8	9	9	— 1	— 12	—	—
8	0	— 3	— 6	— 10	— 9	— 13	— 6	— 3	8	23	25	16	—
9	0	— 1	— 4	— 9	— 12	— 16	— 19	— 5	11	27	35	20	—
10	0	5	3	2	— 4	— 5	— 13	— 9	0	5	5	5	—
11	— 1	— 2	— 2	2	— 1	— 4	— 5	2	5	6	6	13	—
12	— 8	— 6	— 5	— 8	— 7	— 2	1	— 6	2	18	20	16	—
13	0	— 6	— 2	— 1	1	1	2	1	— 3	— 6	0	4	—
14	2	2	2	— 2	— 1	1	— 1	1	0	— 4	— 4	1	—
15	4	2	2	3	4	4	6	4	— 7	— 17	— 11	— 1	—
16	1	1	1	2	1	2	8	7	8	— 3	— 17	— 10	—
17	— 4	— 3	— 4	2	1	— 1	1	6	3	— 2	— 5	— 2	—
18	— 1	3	1	— 1	0	1	2	— 3	— 7	0	3	3	—
19	3	1	2	0	0	— 1	6	1	— 4	— 4	— 4	— 6	—
20	— 5	2	3	4	9	6	8	— 2	— 6	— 4	— 9	— 9	—
21	— 4	2	1	1	4	2	— 1	— 1	2	— 1	— 3	— 2	—
22	5	1	2	3	3	6	— 4	— 1	0	— 6	— 9	— 5	—
23	— 1	— 1	0	0	3	5	6	3	— 1	— 5	— 5	— 4	—
24	1	0	1	0	3	0	— 2	— 6	— 2	— 4	0	1	—
25	2	1	1	9	4	6	4	4	— 2	— 8	— 12	— 12	—
26	0	0	0	2	4	10	9	— 9	— 9	— 6	— 4	— 2	—
27	4	2	0	1	— 1	— 3	— 4	— 3	— 5	— 1	2	3	—
28	1	1	0	1	0	— 2	3	— 3	— 2	— 1	— 4	— 3	—
29	2	1	2	1	1	— 2	— 1	2	— 5	— 9	— 2	— 5	—
Hourly Amount.	72	69	74	82	87	113	155	134	132	188	224	193	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
FEBRUARY. 1	— 8	— 10	4	2	0	— 2	0	5	3	6	5	3	98
2	4	— 3	— 3	— 2	— 4	— 3	— 1	— 2	1	3	4	6	86
3	— 1	— 3	1	4	1	— 4	— 2	0	— 2	0	0	— 2	87
4	5	4	1	4	2	— 3	— 3	— 6	— 7	— 5	— 5	— 3	84
5	— 10	— 7	— 6	8	7	6	8	8	— 1	— 6	— 4	— 2	122
6	— 5	2	5	7	5	— 2	0	— 1	0	1	— 1	— 1	100
7	— 15	— 12	— 11	— 3	9	10	9	10	8	7	3	0	155
8	1	— 4	— 9	— 10	— 6	— 3	— 2	— 1	2	5	4	1	170
9	12	2	— 7	— 5	— 5	— 1	— 4	— 5	— 4	— 2	1	1	208
10	0	— 6	— 8	— 2	3	4	1	— 3	— 4	— 7	— 3	1	98
11	13	2	— 2	— 5	1	7	— 1	6	1	— 1	— 2	— 8	98
12	10	6	— 8	— 8	— 9	— 5	0	— 1	— 1	— 4	— 3	— 2	156
13	3	3	3	— 5	— 4	— 3	— 2	— 1	1	3	3	1	59
14	3	3	5	0	— 2	— 4	— 3	— 2	— 1	3	5	4	56
15	3	3	3	0	— 2	— 4	— 4	— 3	— 2	0	— 3	1	93
16	1	1	5	2	— 2	— 2	2	3	4	— 1	— 4	— 4	92
17	— 1	7	4	0	1	— 3	— 1	— 3	— 1	— 1	— 1	0	57
18	0	3	2	— 2	— 3	— 1	0	— 2	— 1	0	— 1	3	43
19	0	— 1	1	3	0	2	2	— 3	— 1	2	2	— 1	50
20	— 4	1	5	1	— 3	1	— 1	— 1	0	— 1	— 3	0	88
21	— 3	3	5	3	3	0	— 5	— 1	— 2	3	3	3	58
22	— 4	— 5	0	— 2	4	5	4	0	— 2	— 2	— 4	— 7	84
23	1	2	5	3	1	0	1	3	4	1	1	0	56
24	— 4	— 1	— 2	0	0	3	2	2	1	— 1	— 1	0	37
25	— 7	— 1	— 1	0	0	1	1	— 1	2	1	2	1	83
26	0	3	2	— 3	— 6	— 1	— 2	— 2	0	2	1	2	79
27	4	0	1	3	0	0	0	— 2	— 1	1	1	0	42
28	— 3	0	4	6	3	1	— 2	— 1	0	1	1	2	45
29	— 1	3	— 1	1	1	— 1	1	3	0	1	1	3	50
Hourly Amount.	126	101	114	94	87	82	64	81	57	71	72	62	2534

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	0	— 10	— 8	— 3	— 4	— 2	2	— 2	4	9	1	—
2	— 3	0	— 5	— 5	— 5	— 4	— 1	4	7	7	4	0	—
3	— 1	— 3	— 5	— 7	— 9	— 10	— 10	— 6	— 5	— 3	4	6	—
4	7	— 12	— 16	— 17	— 11	— 8	— 2	— 6	— 8	— 4	— 4	— 2	—
5	0	2	— 5	— 5	6	6	1	— 1	9	0	— 8	— 2	—
6	2	0	2	— 1	— 1	— 3	— 2	— 1	— 3	— 6	— 5	2	—
7	— 4	— 1	— 2	— 5	— 5	— 5	— 2	— 4	— 7	— 5	— 4	— 8	—
8	— 2	— 2	— 1	6	— 1	— 1	5	1	— 2	— 3	— 5	0	—
9	— 15	— 10	— 2	1	— 4	14	6	7	25	22	7	15	—
10	10	18	14	11	8	8	6	— 2	— 7	— 17	— 15	— 12	—
11	— 6	0	— 3	3	3	4	9	6	14	20	22	— 7	—
12	1	1	5	19	4	— 2	2	— 2	1	3	6	7	—
13	— 8	10	— 9	— 6	— 6	— 5	— 4	— 3	— 2	3	6	2	—
14	— 4	— 5	— 6	— 8	— 9	— 5	— 3	— 2	— 1	2	2	3	—
15	0	3	— 1	— 4	— 3	— 2	— 6	— 5	— 2	3	10	0	—
16	2	2	0	— 3	3	2	— 1	— 1	— 3	— 10	— 2	3	—
17	0	— 7	28	6	4	0	— 5	— 3	— 5	— 2	4	— 4	—
18	— 1	— 4	— 3	2	3	4	8	7	3	1	4	0	—
19	10	6	— 5	18	7	3	— 16	10	2	— 1	2	— 1	—
20	3	— 11	19	2	0	— 7	— 2	— 11	6	0	— 3	— 2	—
21	18	— 2	— 1	— 2	0	4	5	— 6	— 7	— 1	1	5	—
22	6	14	0	— 3	2	— 1	1	— 2	— 9	— 3	— 2	4	—
23	— 3	4	— 2	— 2	— 1	2	0	— 5	— 1	— 3	— 7	— 1	—
24	— 1	1	1	— 3	— 2	2	1	6	3	4	— 2	— 2	—
25	— 3	1	6	14	8	5	4	0	— 1	1	— 5	— 2	—
26	2	7	5	3	3	2	6	9	3	— 2	— 1	4	—
27	— 6	— 1	— 1	— 1	4	— 2	— 5	— 7	— 8	— 3	1	7	—
28	— 3	— 1	0	0	2	1	2	6	— 1	— 11	— 9	— 3	—
29	— 10	— 4	1	— 5	— 2	5	10	7	6	0	— 8	— 7	—
Hourly Amount.	133	132	158	170	119	121	127	132	153	144	162	112	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	1	— 2	1	— 1	— 1	— 1	1	2	4	3	1	— 3	68
2	— 1	— 6	— 3	0	— 2	— 3	1	2	4	3	3	1	74
3	12	11	11	11	8	8	7	10	7	2	3	8	167
4	3	3	4	2	— 1	2	2	6	4	5	5	6	140
5	— 9	— 4	— 3	— 8	6	3	— 9	— 23	— 9	4	2	2	127
6	10	15	15	11	8	4	2	3	2	— 5	— 7	— 3	113
7	5	5	12	13	13	5	3	— 6	— 11	— 9	— 6	— 3	143
8	11	7	5	0	4	9	12	11	1	— 6	— 9	— 8	112
9	— 50	— 7	— 9	— 22	— 22	— 14	— 14	5	9	1	0	10	291
10	— 6	7	7	17	11	2	— 9	— 4	— 10	— 2	— 9	— 13	225
11	— 27	— 4	2	— 9	— 17	— 10	— 1	— 14	0	— 2	— 1	15	199
12	0	— 6	— 4	— 10	1	— 6	7	4	0	11	— 3	— 8	113
13	3	2	3	0	1	0	5	8	2	— 1	— 3	— 5	97
14	4	9	4	0	2	— 2	2	9	7	4	— 1	3	97
15	0	— 7	— 13	— 13	— 5	0	5	7	4	4	1	1	99
16	4	8	11	9	11	9	1	— 15	— 22	— 10	0	— 4	136
17	3	1	— 8	— 2	— 1	— 4	— 8	10	1	1	— 4	— 7	118
18	— 1	— 6	— 2	— 4	— 16	— 5	— 12	— 3	— 2	2	5	8	106
19	— 2	— 4	— 9	— 7	— 2	1	3	2	3	4	— 2	— 2	122
20	— 3	— 9	— 12	— 5	— 12	— 1	8	4	7	4	15	1	147
21	2	— 4	— 11	— 16	— 1	— 1	— 3	— 1	— 6	— 2	10	5	114
22	9	11	4	3	6	— 10	— 5	— 3	1	— 8	12	3	122
23	— 4	1	10	11	11	6	— 7	— 20	— 8	— 1	— 4	— 3	117
24	2	— 6	— 6	0	1	— 6	— 10	3	2	2	5	1	72
25	— 2	— 4	— 1	— 6	— 8	— 8	— 4	3	— 9	— 2	— 4	2	103
26	8	2	— 4	— 1	— 7	— 5	2	0	4	— 2	— 4	1	87
27	15	0	1	1	3	3	— 1	1	3	— 5	— 4	— 4	87
28	8	6	3	— 1	2	2	0	— 6	— 2	— 2	— 7	— 8	86
29	6	— 14	— 1	26	— 1	22	10	— 1	6	1	— 2	— 4	159
Hourly Amount.	211	171	179	209	184	152	154	186	150	108	132	142	3641

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 6	— 2	4	3	0	5	— 1	— 6	— 4	— 8	— 8	0	—
2	5	3	5	5	5	8	1	— 12	— 14	— 10	— 6	0	—
3	0	2	4	5	4	4	3	10	20	12	— 4	— 1	—
4	3	3	19	16	11	4	— 4	— 9	— 13	— 14	— 4	— 6	—
5	— 1	1	5	3	— 6	— 7	2	11	— 1	6	4	— 3	—
6	— 5	— 2	— 3	— 1	— 3	— 7	— 3	4	6	9	9	2	—
7	3	1	0	2	0	4	1	— 3	— 2	0	8	8	—
8	0	1	1	0	— 1	7	0	— 3	— 6	— 7	4	7	—
9	8	8	2	1	6	— 4	— 12	— 30	— 45	— 44	— 5	8	—
10	— 12	— 16	— 8	— 4	2	6	6	4	12	21	11	9	—
11	2	— 2	— 1	— 7	— 5	— 4	— 8	— 19	— 24	— 19	— 13	14	—
12	— 4	— 1	— 3	— 12	— 1	3	4	— 1	— 16	— 20	— 7	1	—
13	6	— 4	7	5	4	6	7	1	— 1	— 9	— 5	5	—
14	2	3	3	4	4	2	— 2	— 5	— 5	— 7	— 11	— 1	—
15	— 4	— 4	— 2	0	0	— 1	3	16	25	20	— 4	— 18	—
16	3	4	4	5	2	0	— 4	— 17	— 11	5	8	8	—
17	— 4	3	— 18	— 5	0	— 1	1	0	2	2	— 4	— 4	—
18	— 2	0	— 3	— 9	— 9	— 12	— 7	11	12	9	0	— 6	—
19	— 6	— 3	3	— 8	— 3	— 2	10	6	4	5	— 1	— 6	—
20	1	10	— 9	4	3	5	1	4	— 2	— 4	0	— 2	—
21	— 4	6	5	5	2	0	— 1	5	4	2	2	— 2	—
22	— 4	— 9	3	5	3	1	4	11	13	10	— 2	— 3	—
23	8	— 1	0	0	— 1	— 4	— 1	8	11	10	9	3	—
24	1	2	— 1	2	1	— 1	3	3	6	— 5	— 5	— 8	—
25	0	— 2	— 4	— 8	— 2	— 2	7	11	12	10	7	— 1	—
26	0	— 5	— 4	— 2	— 2	1	— 2	2	7	8	1	— 7	—
27	2	0	— 1	0	— 2	1	— 1	5	11	8	4	— 3	—
28	2	0	— 3	— 4	— 3	— 3	— 3	— 6	— 2	1	0	1	—
29	0	— 3	— 7	— 8	— 8	— 10	— 8	— 4	1	5	12	2	—
Hourly Amount.	98	101	132	133	93	115	110	227	292	290	158	139	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	3	6	— 3	— 4	3	2	— 2	— 3	— 2	0	2	7	84
2	9	9	— 1	0	0	— 4	— 3	— 5	— 6	— 3	— 2	— 1	117
3	— 6	— 12	— 11	— 6	0	— 1	— 4	— 8	— 4	1	1	3	126
4	1	7	1	0	1	1	— 1	— 3	— 3	— 3	— 3	— 5	135
5	— 3	2	6	— 2	— 6	— 3	7	16	6	— 2	— 5	— 6	114
6	— 8	— 16	— 14	— 4	3	10	2	2	0	3	3	3	122
7	— 2	— 5	— 10	— 15	— 15	— 1	— 1	5	8	7	4	1	106
8	4	1	0	— 1	— 6	— 6	— 7	— 5	— 2	5	7	8	89
9	45	31	32	32	24	13	9	— 8	— 12	— 9	— 6	— 12	406
10	— 2	— 12	— 17	— 23	— 22	— 7	4	4	9	9	8	10	238
11	43	25	11	19	15	5	— 4	2	— 3	— 2	— 3	— 16	266
12	7	14	11	10	4	2	— 8	— 3	— 3	— 5	5	7	152
13	0	— 2	1	2	— 1	— 1	— 5	— 6	— 2	— 1	1	2	84
14	— 1	0	2	6	5	6	— 2	— 6	— 5	— 3	— 1	— 3	89
15	— 13	— 7	— 1	2	— 3	— 4	— 5	— 4	— 1	2	4	3	146
16	3	0	— 1	1	— 1	— 4	— 1	9	13	2	— 1	— 2	109
17	— 5	— 7	5	1	1	2	5	— 2	— 3	— 2	— 2	— 1	80
18	— 5	1	4	7	12	3	6	0	— 3	— 5	— 6	— 6	138
19	— 6	— 3	5	4	— 2	— 4	— 2	0	0	— 1	3	9	96
20	— 1	— 1	— 1	— 2	5	— 1	— 6	— 3	— 5	— 1	— 6	1	78
21	— 3	— 3	3	5	— 2	— 1	4	— 4	4	— 1	— 6	— 3	77
22	— 13	— 12	— 13	— 14	— 14	0	2	2	— 2	4	— 2	— 2	148
23	— 2	— 6	— 12	— 12	— 10	— 2	6	12	6	0	2	3	129
24	— 5	2	5	3	1	6	6	— 2	— 2	— 5	— 5	— 2	82
25	— 12	— 11	— 8	— 6	1	4	1	1	6	3	2	— 2	123
26	— 10	— 6	— 1	— 1	1	1	— 2	2	2	3	5	2	77
27	— 8	— 5	— 7	— 3	— 5	— 2	— 1	0	0	4	3	1	77
28	0	0	6	10	4	0	2	4	1	0	0	— 1	56
29	— 11	7	7	— 5	3	— 13	— 7	2	1	2	3	5	134
Hourly Amount.	231	213	199	200	170	109	115	123	114	88	101	127	3678

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

MARCH. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	2	3	4	4	1	— 3	— 4	— 6	— 4	— 6	— 3	—
2	0	1	2	3	4	3	5	3	— 5	— 10	— 11	— 3	—
3	0	1	2	2	3	3	2	0	— 3	— 7	— 10	— 7	—
4	— 1	1	1	2	3	3	4	2	— 4	— 4	— 10	— 9	—
5	— 1	1	1	1	2	3	1	— 1	— 4	— 4	— 5	— 4	—
6	0	— 1	1	2	1	— 1	— 3	— 5	— 3	1	0	— 1	—
7	0	1	2	— 1	— 1	— 4	— 6	— 5	2	5	6	5	—
8	2	— 1	— 9	— 8	— 10	— 10	1	11	14	5	— 1	9	—
9	— 3	— 5	— 1	— 3	— 2	1	2	4	8	11	3	— 2	—
10	— 7	— 3	— 4	— 2	— 3	0	— 3	— 3	4	8	3	2	—
11	0	— 2	— 2	— 5	— 4	— 8	— 7	4	12	12	4	5	—
12	0	0	0	2	0	— 1	2	2	1	— 5	— 4	— 4	—
13	0	— 1	0	1	0	2	2	— 2	— 3	— 3	— 3	— 5	—
14	— 2	— 3	— 3	— 2	— 2	3	2	1	4	1	0	— 2	—
15	— 1	6	4	— 1	0	1	0	— 4	— 4	4	4	0	—
16	3	0	3	2	1	5	— 1	— 6	— 3	— 4	— 1	— 2	—
17	— 1	— 8	— 3	1	8	10	8	11	— 5	— 8	— 5	— 3	—
18	— 4	— 3	— 4	— 1	0	1	1	1	1	— 2	2	4	—
19	1	2	0	3	— 2	— 3	1	6	1	— 2	0	— 1	—
20	2	6	0	2	0	— 2	— 7	— 4	— 3	1	3	1	—
21	1	1	1	— 3	0	— 2	0	0	— 1	3	6	4	—
22	3	— 1	0	1	2	1	— 3	— 4	— 5	0	2	1	—
23	— 1	— 1	— 1	— 1	0	0	1	4	0	1	2	3	—
24	0	2	1	1	1	2	3	0	— 6	— 5	— 4	— 5	—
25	2	1	2	2	3	5	5	— 1	— 3	— 6	— 2	— 4	—
26	2	2	3	1	1	1	— 3	— 8	1	3	1	3	—
27	1	2	2	3	3	2	— 1	1	0	— 1	— 5	— 11	—
28	— 3	— 2	— 2	— 2	— 3	— 6	— 3	1	9	15	12	8	—
29	— 2	4	2	— 1	— 3	— 3	— 3	— 5	— 1	1	4	3	—
30	— 1	0	1	— 1	— 2	— 3	1	4	2	5	11	10	—
31	— 1	— 1	0	— 2	— 1	— 2	3	8	5	0	4	6	—
Hourly Amount.	47	65	60	66	69	92	87	115	123	141	134	130	—

MARCH. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	1	3	— 3	— 2	1	3	2	0	— 5	— 1	2	1	66
2	9	8	2	— 2	— 1	— 1	— 1	0	0	1	0	— 1	76
3	— 2	1	— 1	2	5	4	3	1	0	2	1	0	62
4	0	4	5	3	4	2	0	— 1	— 2	— 1	1	— 1	68
5	2	6	5	1	2	— 2	— 1	0	0	1	0	0	48
6	2	2	— 1	— 6	— 5	3	2	2	3	4	3	2	54
7	— 1	— 1	1	3	2	2	— 2	— 1	0	— 3	1	5	60
8	2	1	10	0	— 3	— 3	— 4	— 2	— 1	— 2	— 3	— 9	121
9	— 2	3	5	5	3	1	— 2	1	— 1	2	— 3	— 4	77
10	4	0	— 1	— 4	— 3	— 1	1	— 1	— 1	— 1	— 1	— 1	61
11	8	5	3	0	— 6	— 5	— 3	— 2	— 1	— 2	— 1	— 2	103
12	— 4	0	1	1	1	2	3	3	4	1	1	— 3	45
13	— 2	— 2	0	2	4	2	2	1	2	— 1	1	0	41
14	1	5	3	0	— 1	— 1	— 2	0	2	0	— 2	2	44
15	— 3	0	1	2	— 1	— 2	0	— 2	4	— 1	0	— 1	46
16	3	3	— 9	1	0	1	2	— 4	— 5	4	2	0	68
17	0	0	— 8	— 11	— 8	3	8	7	5	4	0	— 3	128
18	4	0	— 1	— 4	— 3	— 8	— 2	— 1	2	1	— 3	2	55
19	— 4	— 3	4	5	4	2	— 1	— 1	— 6	— 1	1	1	55
20	— 2	— 6	— 6	— 4	3	3	0	2	3	1	2	1	64
21	4	0	4	2	— 3	— 6	— 3	— 3	0	— 1	— 2	1	51
22	— 2	— 6	— 3	3	6	2	— 2	— 2	— 1	— 1	— 1	0	52
23	3	— 1	0	0	— 3	— 5	3	— 1	— 1	0	1	22	55
24	— 10	— 11	— 9	— 1	6	4	2	4	3	2	3	2	87
25	— 5	— 3	— 2	— 2	0	0	4	1	2	0	2	1	58
26	1	— 2	— 3	— 1	2	2	3	2	2	1	0	0	48
27	— 14	— 11	— 9	1	5	7	4	5	4	2	0	— 2	96
28	— 2	— 6	— 1	0	— 1	0	7	— 3	— 3	— 2	1	— 2	94
29	— 2	0	1	2	— 1	— 4	— 3	— 2	— 3	0	0	— 1	51
30	6	2	1	— 5	— 5	— 7	— 6	— 4	— 3	— 3	— 3	— 2	88
31	5	7	7	0	— 5	— 5	— 5	— 4	— 7	— 4	— 4	— 3	90
Hourly Amount.	110	102	111	75	97	96	83	63	76	50	45	75	2112

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

MARCH.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 8	— 2	5	— 5	— 5	— 2	— 4	0	3	0	1	1	—
2	1	— 4	— 3	— 4	— 1	— 3	— 9	— 10	0	4	1	5	—
3	— 5	— 3	— 4	— 2	— 1	— 1	— 1	— 1	— 2	0	3	7	—
4	2	0	— 1	— 1	— 2	1	0	— 2	— 4	— 8	— 3	4	—
5	— 8	— 7	— 2	2	1	— 1	— 2	2	0	2	— 2	3	—
6	— 2	0	— 3	— 2	— 2	0	— 1	1	3	— 2	0	1	—
7	— 4	— 5	— 5	— 6	— 4	— 1	— 4	0	3	4	— 2	— 2	—
8	— 16	— 9	— 5	5	17	5	11	10	13	1	— 1	— 22	—
9	6	2	3	2	6	6	6	4	— 6	— 3	— 2	— 14	—
10	19	— 5	0	5	9	3	9	9	— 1	— 5	— 9	— 7	—
11	1	— 1	— 1	0	— 1	0	1	4	3	4	7	0	—
12	0	— 3	— 1	— 4	— 3	— 3	— 1	0	2	5	5	5	—
13	— 3	— 3	— 3	1	— 1	— 1	— 5	— 3	— 1	— 1	— 2	2	—
14	— 6	0	— 5	— 4	— 8	0	4	4	6	5	5	5	—
15	— 10	— 9	— 3	— 5	— 5	— 5	— 3	5	— 4	— 4	3	7	—
16	— 11	— 13	— 17	— 4	— 7	4	7	— 13	— 15	— 12	— 7	— 13	—
17	19	34	9	14	16	7	17	— 4	4	5	— 6	— 3	—
18	22	5	32	16	11	11	— 6	0	— 6	3	— 2	— 2	—
19	8	14	19	5	3	— 8	— 4	— 3	— 2	3	— 2	1	
20	8	22	3	0	— 1	— 3	2	— 1	5	— 3	— 3	— 4	—
21	7	2	— 3	— 4	— 7	— 5	— 9	— 2	6	— 1	2	5	—
22	— 6	0	1	— 1	— 1	— 3	— 2	— 2	— 3	— 3	1	2	—
23	— 4	— 3	— 3	— 3	— 4	— 6	— 1	3	4	4	7	5	—
24	1	— 1	5	— 3	— 6	— 8	— 4	— 1	— 2	3	4	— 3	—
25	— 4	— 2	— 6	— 2	— 2	2	5	7	6	7	0	0	—
26	— 3	— 2	1	1	3	5	4	3	2	— 5	— 1	5	—
27	— 4	— 5	— 4	— 2	— 2	— 2	— 3	— 1	0	1	0	0	—
28	0	— 3	— 6	— 5	— 3	14	11	8	— 1	— 5	— 4	— 6	—
29	— 2	— 1	— 5	4	— 4	— 6	— 15	— 6	— 11	0	1	9	—
30	— 4	— 5	— 3	— 5	3	— 3	— 5	3	4	5	9	6	—
31	5	5	2	5	2	5	— 1	— 6	— 5	— 1	— 4	1	—
Hourly Amount.	199	170	163	122	141	124	157	118	127	109	99	150	—

MARCH.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 2	2	5	— 1	— 6	— 4	— 1	— 5	4	5	3	— 3	77
2	9	7	6	— 2	1	2	3	1	1	1	— 2	— 3	83
3	3	5	3	— 3	— 5	— 2	1	0	1	1	6	2	62
4	5	6	6	1	— 3	1	— 1	— 2	4	1	— 3	— 8	69
5	3	4	3	5	4	2	1	1	— 1	0	— 3	— 6	65
6	— 1	— 3	1	3	1	2	3	0	— 4	— 4	— 7	— 8	54
7	11	11	17	14	10	5	8	4	5	11	4	— 8	148
8	— 15	— 14	— 22	— 23	— 17	— 18	1	4	4	6	9	10	258
9	— 5	3	11	6	4	0	— 1	— 7	— 9	— 10	— 6	16	138
10	— 8	— 7	1	1	9	1	4	0	— 11	— 8	— 5	— 6	142
11	2	0	— 5	— 5	0	4	1	1	0	— 4	— 4	— 4	53
12	6	2	3	3	1	1	3	— 1	— 7	1	— 2	3	65
13	3	7	6	— 2	— 3	1	2	0	0	— 1	— 4	— 8	63
14	1	2	3	0	— 1	— 1	3	3	3	3	7	— 3	82
15	5	0	0	— 4	2	6	18	25	45	14	24	23	229
16	— 3	— 7	6	13	13	17	9	6	— 42	— 32	— 51	— 10	332
17	— 20	4	— 11	— 8	— 16	— 6	— 28	— 26	— 4	11	16	35	323
18	— 25	— 24	— 24	— 14	— 10	— 9	— 10	6	7	4	30	10	289
19	— 2	— 4	— 18	17	1	4	3	4	6	3	— 5	— 2	141
20	— 3	— 6	— 9	— 6	1	1	4	— 2	— 3	— 1	— 4	— 3	98
21	5	8	10	7	3	2	— 8	0	1	6	10	0	113
22	4	— 4	— 3	— 1	0	0	5	3	2	— 2	— 7	— 11	67
23	3	— 4	2	3	2	5	3	3	0	— 7	— 4	0	83
24	— 4	9	5	5	3	5	1	— 5	— 1	— 6	— 2	— 1	88
25	— 1	4	— 3	— 5	2	2	0	1	— 2	2	0	— 1	66
26	2	— 1	— 3	— 2	1	2	4	— 1	— 1	0	— 2	— 7	61
27	3	3	4	2	0	2	1	3	— 2	0	— 2	— 3	49
28	4	13	22	23	7	— 20	— 41	— 7	6	11	3	2	225
29	7	5	4	7	6	0	2	— 1	0	— 2	— 1	— 4	103
30	5	— 14	— 6	— 3	— 4	— 1	4	1	2	5	7	7	114
31	8	12	1	0	— 4	— 3	2	— 2	— 5	— 10	— 8	— 9	106
Hourly Amount.	178	195	223	189	140	129	176	125	183	172	241	216	3846

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0,00001 C. G. S.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	8	3	— 3	2	3	2	3	4	1	2	1	— 9	—
2	2	3	2	2	— 2	0	3	6	3	3	6	— 2	—
3	8	7	7	7	6	8	4	— 15	— 4	4	7	— 6	—
4	1	2	5	2	4	2	1	— 2	2	4	3	— 2	—
5	2	— 2	— 4	— 7	— 8	— 8	— 4	8	6	— 1	— 2	— 1	—
6	3	0	0	— 1	— 3	— 3	0	1	— 4	1	0	2	—
7	2	3	5	6	6	5	1	— 10	— 11	— 5	2	8	—
8	9	3	3	— 3	— 15	— 8	— 16	— 14	— 12	6	6	14	—
9	— 5	— 5	— 7	— 7	— 9	— 10	— 11	1	10	11	9	9	—
10	— 15	4	2	— 3	— 4	0	1	— 1	1	— 1	3	— 1	—
11	— 2	0	1	0	2	3	— 3	— 9	— 6	— 5	— 3	2	—
12	— 3	— 1	— 5	— 3	— 3	— 5	1	10	7	6	1	— 4	—
13	— 1	— 1	0	— 4	— 4	— 2	1	7	4	3	2	— 2	—
14	6	0	2	2	5	1	0	— 4	— 6	— 3	2	— 1	—
15	7	4	— 1	1	2	3	6	— 1	— 2	— 9	— 3	1	—
16	— 7	— 3	— 1	— 9	— 10	— 15	— 13	16	13	7	6	6	—
17	— 5	— 16	1	— 5	— 8	— 2	— 8	11	8	— 1	— 5	— 13	—
18	— 16	0	— 17	— 8	— 2	— 6	7	4	6	1	6	3	—
19	1	0	— 2	10	13	17	9	— 15	— 4	— 4	3	6	—
20	0	— 7	6	6	5	7	4	2	— 6	— 8	— 4	— 1	—
21	— 4	— 2	4	6	4	2	1	— 5	— 10	— 5	— 4	— 3	—
22	3	1	0	2	3	3	5	4	5	— 1	— 5	— 8	—
23	3	1	— 4	0	— 1	— 1	— 4	4	— 3	— 6	— 7	— 5	—
24	— 2	0	— 5	1	3	3	5	11	8	— 4	— 10	— 3	—
25	0	0	2	0	— 1	— 3	— 7	— 3	— 2	— 9	— 7	— 2	—
26	— 1	— 1	1	1	3	4	6	4	— 4	0	— 5	— 4	—
27	3	2	1	0	2	3	4	0	— 2	2	3	5	—
28	5	6	7	8	9	1	— 3	— 25	— 15	— 2	10	19	—
29	1	0	4	— 2	4	6	9	2	4	0	— 4	— 8	—
30	3	1	— 2	1	— 4	0	0	2	— 2	— 2	— 11	— 4	—
31	— 4	— 3	— 1	— 4	1	— 3	0	5	7	8	2	— 1	—
Hourly Amount.	132	81	105	113	149	137	140	206	178	124	142	155	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 10	— 6	— 7	— 3	— 1	— 2	0	1	1	— 3	0	2	77
2	— 6	— 6	— 1	0	— 2	— 3	— 3	— 2	1	2	5	7	72
3	— 7	— 1	1	3	— 2	— 5	— 5	— 6	— 4	— 3	— 2	0	122
4	— 7	— 11	— 6	— 1	2	— 3	1	— 1	— 3	— 2	0	3	70
5	2	— 2	— 1	— 4	— 1	4	3	0	1	— 1	2	4	78
6	4	8	10	9	4	— 5	— 6	— 5	— 3	— 1	2	3	78
7	— 2	— 8	— 15	— 9	0	2	— 1	2	0	— 5	— 3	2	113
8	19	8	14	20	12	8	— 4	— 9	— 8	— 9	— 11	— 9	240
9	— 3	— 5	— 7	2	3	4	5	6	10	8	7	— 6	160
10	4	5	— 6	— 10	— 11	— 3	— 2	7	13	9	5	3	114
11	— 3	— 1	0	1	0	— 2	0	— 1	0	1	0	— 3	48
12	— 3	— 1	3	3	2	0	1	0	0	1	1	— 4	68
13	— 2	— 4	— 4	— 3	4	2	1	3	3	4	5	6	72
14	— 3	— 4	— 3	— 1	1	1	— 1	3	— 1	0	1	4	55
15	— 3	— 2	0	2	— 4	— 7	— 13	— 17	12	5	7	— 2	114
16	0	9	6	— 1	0	— 5	0	7	— 1	21	— 4	10	171
17	6	7	17	9	8	— 1	15	14	1	— 11	— 11	— 23	206
18	10	13	11	6	4	6	0	3	— 6	— 2	— 13	— 1	151
19	6	1	0	— 9	— 18	— 14	7	— 4	— 5	— 2	5	5	160
20	0	8	3	— 3	— 8	3	— 3	1	1	2	5	3	96
21	3	3	1	3	5	3	4	— 3	— 4	— 7	5	1	92
22	— 2	2	— 2	— 5	— 3	1	— 1	— 3	— 3	2	2	3	69
23	2	7	6	5	8	5	0	— 1	— 3	0	— 1	— 4	81
24	1	— 3	1	— 5	— 7	— 3	2	3	2	1	1	— 1	85
25	6	12	12	12	7	1	0	— 1	0	— 3	2	2	94
26	— 7	10	6	— 4	— 3	1	0	2	3	2	2	1	75
27	1	9	9	— 5	— 4	— 2	1	2	3	3	3	2	71
28	10	— 1	— 13	— 15	— 4	13	25	2	— 13	— 14	— 5	— 4	229
29	— 5	— 8	— 10	— 7	— 2	1	0	0	— 1	0	0	0	78
30	— 4	8	6	7	5	0	— 3	— 1	1	0	1	— 3	71
31	— 6	— 11	— 7	1	4	3	— 1	1	4	7	7	6	97
Hourly Amount.	147	184	188	168	139	113	108	111	111	131	118	127	3307

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	— 5	— 3	— 2	— 3	— 2	— 3	— 2	— 1	— 2	— 1	1	4	—
2	0	0	— 2	— 4	— 1	— 2	— 2	— 2	— 2	— 3	— 2	0	—
3	— 6	— 3	— 4	— 4	— 2	— 4	— 2	2	— 3	4	11	6	—
4	— 4	— 4	— 5	— 7	— 11	— 5	— 4	— 3	8	5	1	— 3	—
5	— 2	— 8	— 6	— 4	— 1	— 1	— 2	2	4	5	5	9	—
6	— 1	— 3	— 2	— 2	3	1	2	— 3	— 4	— 3	— 6	— 6	—
7	— 1	1	— 1	0	— 1	1	1	1	— 3	— 3	— 1	0	—
8	— 3	— 7	— 3	— 4	— 2	0	4	2	1	2	8	6	—
9	— 1	— 1	— 1	— 1	— 4	— 4	— 1	— 5	— 4	0	5	11	—
10	3	2	1	2	1	0	1	— 2	— 2	— 2	— 4	0	—
11	— 1	— 2	— 6	— 7	— 8	— 8	— 11	1	7	15	15	13	—
12	4	7	6	1	— 5	3	3	7	0	6	2	1	—
13	0	0	— 2	0	0	7	6	3	4	1	0	1	—
14	— 7	— 6	8	3	9	7	1	0	7	7	6	5	—
15	— 4	— 1	6	1	2	3	3	3	2	— 5	1	7	—
16	12	10	13	16	6	— 1	— 6	2	9	6	— 8	— 15	—
17	— 2	— 1	— 1	0	— 2	— 2	— 3	1	— 1	— 3	— 1	— 4	—
18	— 1	0	— 1	— 1	3	1	1	1	0	1	— 3	— 2	—
19	2	2	0	1	2	— 1	— 1	2	— 1	— 6	— 9	— 7	—
20	3	2	1	1	— 3	— 3	— 3	— 8	— 6	— 3	4	7	—
21	3	4	0	1	2	— 1	— 6	— 6	— 5	— 4	— 3	1	—
22	— 1	1	0	1	— 1	0	1	6	2	— 7	— 11	— 8	—
23	0	3	1	3	2	3	— 4	— 6	— 5	— 5	— 5	— 7	—
24	2	2	1	2	3	2	0	— 1	— 3	— 3	— 6	— 6	—
25	2	2	2	1	4	4	4	1	3	3	7	— 2	—
26	3	2	2	4	4	4	8	8	4	0	— 4	— 10	—
27	0	0	— 1	— 2	0	3	6	3	— 1	— 1	— 1	— 5	—
28	3	2	1	2	0	2	5	1	— 2	— 5	— 1	— 1	—
29	0	2	1	0	— 1	— 4	0	— 5	— 3	0	3	3	—
30	1	0	— 1	— 2	0	— 4	0	— 2	1	1	— 4	0	—
Hourly Amount.	77	81	81	80	85	86	93	90	99	110	138	150	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
APRIL. 1	8	7	6	0	— 1	0	0	— 1	1	— 1	2	0	58
2	4	3	3	0	2	4	0	0	— 1	— 2	— 2	— 3	44
3	7	2	0	8	9	— 1	0	3	4	— 1	— 4	— 1	91
4	0	5	1	5	3	3	— 1	3	— 2	1	— 3	— 5	92
5	12	14	6	— 3	4	— 1	— 4	— 3	— 7	— 4	— 1	2	110
6	0	5	0	— 1	3	5	1	3	0	4	3	1	62
7	— 4	— 7	— 2	3	1	4	1	3	5	0	3	0	47
8	2	— 8	— 5	2	3	1	— 2	0	— 1	— 1	— 1	0	68
9	8	1	— 1	0	— 1	— 2	0	1	1	1	1	3	58
10	— 2	— 5	— 9	— 9	— 2	4	4	5	3	3	2	3	71
11	10	5	3	— 1	— 7	— 4	0	— 6	— 7	— 9	— 8	— 4	158
12	0	2	— 2	— 3	— 1	— 1	0	— 7	— 5	— 2	— 1	— 4	73
13	— 1	1	2	4	1	— 1	— 6	— 6	— 3	— 2	— 3	— 5	59
14	— 1	— 2	— 2	— 5	— 6	— 2	— 5	— 5	— 10	1	1	— 7	113
15	5	— 4	— 6	— 5	— 3	1	— 4	— 5	— 2	— 4	— 3	1	81
16	— 11	— 5	— 3	0	— 1	3	3	3	6	1	1	1	142
17	— 6	— 3	1	4	4	1	2	— 1	0	0	0	1	44
18	0	5	10	3	1	0	1	— 2	0	0	1	1	39
19	— 2	— 3	— 2	1	2	— 1	2	2	3	4	3	1	60
20	10	9	2	— 3	— 2	— 7	0	— 1	0	0	— 3	2	83
21	4	6	6	— 1	— 2	— 1	0	2	1	2	1	1	63
22	— 4	1	8	5	2	— 2	0	2	2	3	3	3	74
23	— 6	— 3	3	0	— 3	1	3	3	3	4	4	3	80
24	— 3	— 2	— 3	0	1	— 2	— 1	0	— 1	1	0	0	45
25	— 11	— 14	— 5	— 3	— 1	0	0	1	1	1	2	4	78
26	— 11	— 9	— 12	— 8	— 3	1	4	4	4	1	3	2	115
27	— 6	— 2	— 2	0	0	1	1	0	1	3	2	5	46
28	— 3	— 4	1	— 1	— 6	— 2	3	2	3	— 2	— 2	— 4	58
29	2	1	1	1	2	1	2	0	1	0	0	1	34
30	0	3	3	4	2	— 3	— 3	— 2	0	— 1	0	0	37
Hourly Amount.	143	141	110	83	79	60	53	76	78	59	63	68	2183

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

APRIL.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 6	— 6	— 6	— 6	— 3	— 3	— 6	— 5	— 2	4	1	5	—
2	— 5	3	— 1	— 3	— 3	— 2	— 2	— 1	— 5	— 6	— 7	1	—
3	— 1	— 1	0	14	20	24	29	18	41	— 4	— 35	— 34	—
4	2	6	8	4	13	7	10	10	— 15	— 21	— 11	1	—
5	0	— 3	18	10	0	— 2	— 2	0	0	2	1	— 2	—
6	10	7	1	5	1	3	7	6	— 8	— 14	— 5	3	—
7	— 4	0	— 3	— 9	— 5	— 6	— 4	0	2	5	7	9	—
8	— 10	4	— 7	— 6	— 6	— 6	— 6	3	0	0	— 1	2	—
9	3	0	— 5	— 6	— 8	— 7	— 10	— 6	— 5	— 5	6	4	—
10	— 3	— 5	— 7	— 8	— 8	— 9	— 6	— 2	— 4	— 2	3	3	—
11	0	2	0	— 1	1	0	— 1	3	7	— 5	— 1	— 8	—
12	— 13	1	23	51	33	21	26	5	— 4	— 13	— 35	— 32	—
13	13	8	6	8	10	3	4	— 1	0	1	1	7	—
14	42	13	7	11	— 4	9	4	1	— 9	— 9	— 1	— 4	—
15	0	5	13	— 4	— 3	0	— 6	3	5	13	— 7	— 8	—
16	0	— 1	— 1	— 5	— 6	— 4	— 4	— 4	5	12	12	10	—
17	— 1	— 1	— 1	— 4	— 3	— 3	— 3	— 8	— 3	1	7	0	—
18	0	— 1	— 3	— 5	— 2	2	— 1	5	4	4	— 1	1	—
19	0	0	— 2	— 5	2	— 2	— 4	— 5	— 4	2	9	9	—
20	— 6	— 3	— 5	2	1	— 6	— 6	5	7	12	12	8	—
21	— 6	— 5	— 9	— 10	— 9	— 8	— 6	— 5	0	4	5	3	—
22	— 5	— 5	— 7	— 7	— 7	— 5	— 6	— 7	— 4	4	9	5	—
23	— 3	0	— 2	— 6	— 5	— 3	— 1	1	5	11	10	3	—
24	— 1	0	— 4	— 8	— 6	— 7	— 5	— 3	— 1	7	15	3	—
25	1	— 2	3	— 1	— 3	1	4	— 3	2	11	4	— 3	—
26	0	— 1	— 2	— 4	1	3	— 4	— 3	1	9	7	1	—
27	— 1	— 2	— 3	— 5	— 3	— 2	— 2	— 1	— 3	2	4	2	—
28	— 4	— 6	— 4	— 5	— 4	4	— 6	— 8	— 3	3	1	4	—
29	— 6	— 2	— 3	4	— 6	— 3	— 2	— 2	— 10	— 2	— 2	— 1	—
30	0	1	— 4	10	9	7	7	5	2	— 18	— 2	9	—
Hourly Amount.	146	94	158	227	185	162	184	129	161	203	222	185	—

APRIL.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	6	2	4	12	10	4	1	— 1	— 1	— 3	— 4	— 9	107
2	8	9	11	5	1	— 8	— 13	— 9	— 8	— 5	3	— 1	120
3	— 24	— 18	— 9	— 21	— 8	0	8	— 1	1	1	7	3	322
4	— 3	— 1	1	2	2	0	— 2	— 1	12	— 4	— 1	1	138
5	— 10	— 14	— 16	— 3	— 13	— 9	1	9	8	3	1	9	136
6	5	4	— 5	— 7	— 2	— 8	7	— 5	4	— 1	0	— 1	119
7	3	5	6	6	6	2	3	2	— 6	5	1	— 5	104
8	11	1	— 2	— 2	1	2	3	4	10	4	— 2	— 3	96
9	6	7	6	4	6	3	4	4	1	— 1	— 3	— 5	115
10	4	4	2	7	11	9	12	16	10	10	5	4	154
11	7	19	25	9	15	6	— 36	— 58	— 35	— 14	— 13	— 17	283
12	— 14	— 23	1	8	— 1	18	— 2	— 13	— 2	1	1	3	344
13	— 20	3	— 3	— 24	— 40	— 22	— 10	21	— 11	3	7	12	238
14	3	— 7	— 15	— 5	1	1	2	— 5	7	— 5	— 6	13	184
15	— 8	6	0	— 10	— 7	— 11	1	11	1	3	8	— 1	134
16	— 4	— 3	1	— 4	— 5	— 5	— 5	— 1	2	9	9	8	120
17	0	3	1	3	1	3	3	0	— 3	— 2	0	— 3	57
18	— 6	— 10	— 11	— 9	— 7	0	3	7	5	3	5	3	98
19	5	0	— 4	0	4	3	3	1	— 4	— 5	— 8	— 5	86
20	— 1	— 3	— 3	1	6	2	7	6	3	1	— 4	— 9	119
21	3	7	8	8	9	3	2	4	4	0	— 3	2	123
22	4	6	— 4	— 2	1	2	5	6	1	0	2	3	107
23	— 6	— 8	— 5	— 3	0	1	1	4	2	2	1	0	83
24	3	2	3	6	— 1	5	4	— 2	0	— 3	— 1	6	96
25	— 8	— 6	0	0	1	0	— 2	— 3	— 6	— 5	— 3	5	77
26	— 5	— 9	— 4	2	4	1	— 3	— 6	— 9	— 1	3	2	85
27	4	10	8	7	3	0	1	3	2	2	0	— 6	76
28	9	11	3	2	0	1	— 3	— 1	12	7	1	— 2	104
29	3	6	2	— 2	— 4	— 5	— 4	— 3	— 7	— 1	— 4	1	85
30	18	— 3	— 3	8	5	0	8	9	3	2	— 1	— 1	135
Hourly Amount.	211	210	166	182	175	134	159	216	180	106	107	143	4045

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	7	7	6	7	5	6	10	— 6	— 3	— 2	— 1	— 3	—
2	5	0	2	3	2	0	— 2	— 3	2	4	3	— 4	—
3	2	2	2	— 10	— 7	— 15	— 15	— 8	— 17	— 5	11	22	—
4	2	0	— 1	— 1	— 2	— 3	— 3	— 3	8	12	5	— 2	—
5	3	6	— 7	— 1	5	5	4	— 3	— 8	— 8	— 3	— 2	—
6	— 8	— 3	1	1	2	3	5	5	6	4	— 4	— 7	—
7	0	— 3	— 2	0	— 3	— 2	— 5	7	1	— 7	— 6	— 7	—
8	7	— 2	2	2	1	0	— 2	— 5	— 7	— 8	— 8	1	—
9	0	— 1	2	2	1	0	— 2	— 8	— 8	2	— 2	1	—
10	— 2	— 3	— 1	0	— 1	0	— 2	1	3	— 1	— 2	— 3	—
11	2	0	3	4	1	7	1	— 14	— 13	— 6	2	6	—
12	— 5	— 12	— 21	— 33	— 17	— 9	— 9	5	15	11	16	10	—
13	— 12	— 4	— 3	— 3	— 5	— 1	0	2	2	0	— 4	— 8	—
14	— 26	— 7	— 7	— 11	— 4	— 11	— 7	— 3	5	12	13	13	—
15	— 2	— 2	— 6	5	5	3	8	0	— 1	— 6	2	3	—
16	4	4	4	5	3	4	3	2	— 2	2	2	— 4	—
17	3	3	4	3	2	2	5	6	4	2	— 4	2	—
18	4	4	6	5	2	— 2	— 1	— 4	0	1	0	— 4	—
19	3	3	5	9	4	8	8	3	5	5	— 2	— 5	—
20	11	9	12	9	8	14	14	— 14	— 13	— 10	— 7	— 3	—
21	5	6	9	9	6	8	3	— 5	— 5	— 6	— 3	— 2	—
22	1	1	2	4	2	2	1	— 5	0	1	0	1	—
23	— 3	— 3	— 3	0	— 1	— 3	— 1	14	4	— 3	— 7	— 2	—
24	— 2	— 2	0	3	2	3	1	10	6	4	— 2	— 1	—
25	— 2	— 1	— 5	0	3	1	— 4	6	2	— 6	— 1	4	—
26	— 4	— 2	— 3	— 1	— 2	— 7	— 1	5	5	— 5	— 1	4	—
27	0	1	1	3	1	1	— 1	3	3	0	— 2	— 1	—
28	2	2	1	1	1	1	4	8	3	1	— 1	3	—
29	6	0	1	1	1	— 1	— 2	4	4	0	4	— 3	—
30	— 1	— 2	— 1	— 9	— 12	— 10	— 7	2	0	11	5	— 6	—
Hourly Amount.	134	95	123	145	111	132	131	164	155	145	123	137	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
APRIL. 1	— 4	— 5	— 4	— 10	— 8	— 5	— 3	— 1	— 1	0	2	3	109
2	— 6	— 6	— 2	2	— 1	4	5	3	0	— 1	— 3	— 1	64
3	20	21	15	11	— 4	— 6	— 9	— 3	— 5	— 4	— 3	0	217
4	— 5	— 14	— 2	— 4	— 5	1	— 1	0	— 4	0	1	2	81
5	5	11	15	6	11	9	— 3	— 6	— 4	— 4	— 2	— 9	140
6	— 12	— 7	1	— 4	— 5	3	— 2	5	0	2	— 1	1	92
7	3	8	2	0	2	4	0	0	5	0	0	3	70
8	7	10	6	0	— 1	0	0	2	— 3	— 3	1	3	81
9	4	6	7	6	4	2	— 2	— 3	— 3	— 1	— 2	— 1	70
10	— 3	2	7	4	— 3	— 4	— 5	— 8	— 6	— 4	— 2	0	67
11	4	0	1	12	5	— 2	26	34	17	— 5	2	— 3	170
12	— 2	10	— 6	— 7	— 3	— 7	3	18	2	— 1	1	— 2	225
13	5	— 5	4	22	26	7	1	— 18	4	— 3	— 8	— 7	154
14	11	18	19	7	0	— 5	— 5	— 1	— 7	2	2	— 10	206
15	— 3	— 5	— 8	— 6	— 2	3	2	— 7	— 1	2	— 1	5	88
16	— 7	— 11	— 12	— 2	0	2	3	— 2	— 3	— 4	— 1	0	86
17	2	— 4	— 10	— 10	— 6	— 3	— 1	— 1	0	1	0	3	81
18	0	— 3	3	7	4	— 3	— 4	— 4	— 2	0	0	2	65
19	— 5	— 6	— 7	— 12	— 11	— 7	— 7	— 3	0	2	6	7	133
20	— 1	1	4	— 2	— 10	— 6	— 7	— 10	— 6	— 3	— 1	8	183
21	— 3	— 2	— 3	— 1	0	0	0	— 2	— 1	0	0	0	79
22	— 2	— 7	— 5	1	5	3	0	— 4	— 2	0	— 3	— 4	56
23	2	0	— 5	1	2	2	2	— 2	2	— 1	— 2	— 1	66
24	— 4	— 5	— 7	— 9	0	0	— 2	3	0	4	0	— 2	72
25	8	0	— 6	— 2	— 1	2	3	5	4	2	0	— 7	75
26	11	12	3	— 2	— 5	— 2	— 1	0	4	2	— 3	— 3	88
27	— 8	— 9	— 6	— 2	0	1	2	2	3	4	1	2	57
28	— 4	— 9	— 9	— 6	— 1	— 1	0	1	— 4	0	1	2	66
29	0	— 4	— 1	1	4	4	3	1	4	1	2	— 1	53
30	— 10	6	4	— 3	0	— 1	— 3	— 4	1	1	4	3	106
Hourly Amount.	161	207	184	162	129	99	105	153	98	57	55	95	3100

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY.	1	1	— 4	— 4	— 5	— 5	— 8	— 9	— 3	— 2	— 3	6	6	—
	2	1	0	2	— 1	— 1	— 4	— 7	— 9	— 6	— 8	— 3	— 2	—
	3	1	— 1	— 1	1	0	0	— 3	— 4	— 1	0	— 1	— 2	—
	4	2	3	4	0	0	1	1	0	2	3	— 3	— 11	—
	5	— 1	— 2	— 2	— 2	— 2	— 2	1	1	2	3	2	— 1	—
	6	0	1	0	0	— 1	— 1	0	0	1	4	2	— 6	—
	7	1	0	— 2	— 2	— 1	— 3	0	— 5	— 4	2	6	10	—
	8	— 1	5	— 4	7	9	6	2	7	11	14	7	4	—
	9	— 4	1	5	4	2	1	4	4	8	4	2	— 2	—
	10	— 3	1	— 1	3	2	0	— 2	— 1	— 5	— 1	— 1	3	—
	11	0	— 1	9	— 5	— 4	— 5	— 2	— 3	0	2	5	— 1	—
	12	— 1	1	2	— 2	— 1	3	3	— 1	— 1	— 2	— 2	0	—
	13	1	0	1	3	1	6	4	6	3	2	— 3	— 7	—
	14	2	1	1	1	1	— 1	4	5	3	— 2	— 6	— 7	—
	15	0	— 1	0	— 1	— 1	— 2	1	1	— 1	— 3	— 3	— 3	—
	16	2	0	1	1	0	0	— 3	— 1	— 4	— 9	— 7	— 2	—
	17	0	0	0	1	— 1	— 4	— 13	— 17	— 14	— 5	— 4	0	—
	18	— 2	— 4	— 3	— 2	— 2	— 2	— 2	0	3	0	— 1	0	—
	19	0	0	— 1	— 5	4	0	— 4	— 2	— 8	— 2	1	7	—
	20	3	0	0	1	4	0	— 1	— 4	— 5	— 5	3	9	—
	21	— 2	0	— 3	3	— 3	— 3	— 1	5	2	26	24	25	—
	22	1	3	5	4	4	6	3	— 2	— 2	— 3	— 4	— 6	—
	23	3	2	1	2	0	1	— 1	2	2	2	0	— 1	—
	24	1	— 4	— 2	1	0	7	6	3	10	— 1	1	— 4	—
	25	3	0	1	1	2	— 1	3	4	3	— 4	— 5	— 7	—
	26	0	3	2	2	— 1	4	6	4	6	— 5	— 7	— 10	—
	27	4	— 2	1	— 3	2	— 1	6	5	— 1	— 5	— 5	— 4	—
	28	0	2	— 6	3	— 2	3	6	5	1	1	2	0	—
	29	— 3	0	0	— 4	— 1	0	— 1	5	— 1	— 2	— 3	0	—
	30	0	— 2	— 3	— 3	— 4	— 3	— 3	— 9	— 3	— 2	9	11	—
	31	— 4	— 3	— 4	— 4	— 1	0	2	6	1	— 1	— 3	1	—
Hourly Amount.		47	47	71	77	62	78	104	124	116	126	131	152	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
MAY.	1	— 1	10	27	— 3	11	2	2	— 1	— 2	— 10	— 2	1	128
	2	1	2	2	8	6	5	1	5	1	3	0	1	79
	3	— 9	— 6	0	8	3	3	2	2	3	1	2	1	55
	4	— 12	— 8	0	2	2	3	3	4	2	2	2	1	71
	5	— 4	— 6	— 2	5	4	2	2	1	0	0	0	0	47
	6	— 10	— 9	— 4	1	3	1	1	3	1	4	1	3	57
	7	6	12	— 5	3	0	0	3	— 24	— 13	— 3	— 7	— 2	114
	8	— 1	— 5	— 10	— 6	1	— 6	— 4	— 11	0	0	— 1	— 5	127
	9	1	— 9	— 7	1	1	3	3	3	— 5	— 2	0	— 3	79
	10	6	7	2	0	— 3	0	— 7	4	1	— 2	— 2	0	57
	11	— 5	4	9	5	— 1	— 1	— 4	— 1	0	0	— 2	1	70
	12	1	0	3	— 2	1	— 1	0	0	— 2	— 3	— 3	0	35
	13	— 4	— 5	— 4	— 3	— 2	3	1	2	2	1	3	2	69
	14	— 1	— 5	— 5	1	2	2	4	3	0	2	1	1	61
	15	— 1	2	4	4	0	0	— 2	1	— 1	1	0	2	35
	16	3	6	— 1	0	4	4	1	4	4	5	3	3	68
	17	7	12	4	2	2	4	5	6	2	1	0	— 1	105
	18	5	6	5	4	0	— 1	— 1	— 3	— 3	— 4	— 1	3	57
	19	5	9	2	— 5	— 7	0	— 3	— 2	— 1	3	5	3	79
	20	9	6	0	— 4	— 6	— 6	— 6	— 2	— 3	— 1	— 10	— 7	95
	21	5	— 5	— 10	— 21	— 8	— 2	4	— 8	— 3	— 5	— 1	— 2	171
	22	— 4	— 4	— 5	— 4	— 3	0	0	1	3	3	2	3	75
	23	3	2	0	— 3	— 3	— 5	— 3	0	— 1	3	0	2	42
	24	— 7	— 7	— 5	3	— 2	— 3	0	— 1	0	1	1	6	76
	25	— 3	— 5	— 1	— 3	0	— 3	— 2	1	2	3	4	2	63
	26	— 6	— 3	— 3	— 7	— 3	— 5	— 2	11	9	1	3	— 1	104
	27	4	— 5	— 4	— 3	2	6	1	0	— 1	1	0	— 4	70
	28	1	0	1	— 1	— 5	— 1	0	1	1	— 1	1	— 2	46
	29	2	0	2	6	1	— 1	1	3	1	0	0	— 3	40
	30	7	3	8	4	3	5	— 1	— 4	— 1	— 2	— 2	— 2	94
	31	6	2	0	— 1	— 1	0	1	2	2	0	— 1	— 1	47
Hourly Amount.		140	165	135	123	90	78	70	114	70	68	60	68	2316

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY. 1	— 10	— 10	— 7	— 3	3	3	— 2	1	— 1	3	18	6	—
2	5	19	6	3	2	— 2	0	— 8	— 1	4	10	0	—
3	— 9	1	0	— 3	— 3	— 2	— 1	— 3	0	6	10	10	—
4	— 2	— 1	3	1	— 2	— 5	— 1	1	1	5	4	1	—
5	1	— 3	— 3	— 4	— 6	— 5	— 4	0	0	2	4	7	—
6	— 1	— 1	— 1	— 1	— 1	0	— 2	— 4	— 5	— 3	— 1	— 1	—
7	— 10	— 5	— 6	— 3	2	9	13	21	7	15	18	19	—
8	19	31	25	10	14	17	9	— 2	— 6	— 20	— 16	— 12	—
9	— 1	0	6	4	6	5	— 6	— 4	— 2	— 2	1	— 2	—
10	3	0	— 1	— 4	— 4	— 9	— 6	2	13	— 7	0	4	—
11	5	1	17	10	7	10	7	8	2	2	— 10	— 7	—
12	— 8	— 2	— 2	— 3	— 1	— 2	3	4	3	3	1	5	—
13	14	— 4	— 8	— 7	— 5	— 7	— 1	1	3	8	— 1	1	—
14	— 7	— 8	— 2	— 3	— 6	— 4	— 4	— 4	4	10	11	8	—
15	— 3	— 2	— 2	— 3	— 3	— 1	— 6	— 4	3	7	6	3	—
16	— 3	1	0	— 1	2	— 1	— 1	0	8	13	4	1	—
17	— 6	— 7	— 7	— 10	— 7	— 5	0	0	— 3	0	3	2	—
18	— 8	— 7	— 5	— 3	— 3	— 3	0	1	— 1	2	1	3	—
19	0	— 1	0	2	5	1	— 6	5	5	5	5	5	—
20	— 5	— 4	— 4	— 4	— 5	— 6	— 6	0	3	6	8	9	—
21	27	38	37	53	31	32	11	— 15	— 34	— 76	— 96	— 78	—
22	14	4	3	6	0	— 5	8	5	— 3	— 6	2	3	—
23	— 5	— 5	— 9	— 7	— 5	— 7	— 5	1	4	10	13	9	—
24	6	— 1	— 7	— 2	4	7	11	4	— 2	7	— 5	— 7	—
25	2	— 4	— 7	— 8	— 6	— 5	— 6	— 4	— 2	0	5	8	—
26	3	— 6	— 7	— 8	— 12	— 10	— 12	— 6	— 10	— 11	— 5	4	—
27	— 13	— 13	— 5	3	4	10	4	— 3	4	5	5	1	—
28	0	— 1	— 7	— 9	— 6	— 11	2	8	7	7	3	— 2	—
29	— 7	— 6	— 6	— 3	— 2	— 1	2	— 2	2	0	— 2	— 5	—
30	— 1	— 2	4	0	— 1	0	2	— 1	— 2	— 1	— 3	4	—
31	— 4	— 4	— 2	— 2	— 2	— 2	— 3	— 4	— 2	— 1	3	7	—
Hourly Amount.	202	192	199	183	160	187	144	126	143	247	274	234	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
MAY. 1	19	16	— 35	— 5	— 22	— 31	— 13	3	— 3	17	1	0	232
2	0	— 2	— 3	— 4	— 4	— 4	2	3	1	1	0	— 1	85
3	— 3	— 1	— 2	— 9	— 4	0	1	5	1	2	2	1	79
4	3	0	— 6	— 1	0	— 2	1	0	— 2	— 2	0	— 2	46
5	8	8	7	4	0	— 4	— 3	— 2	— 2	— 2	— 1	1	81
6	2	4	6	4	5	4	8	8	3	— 1	— 2	— 3	71
7	5	— 26	— 19	— 28	— 15	— 13	— 30	— 28	14	— 21	1	10	338
8	— 24	— 17	0	— 3	— 7	— 4	2	3	11	0	21	12	285
9	3	5	— 6	— 8	— 4	4	5	5	2	— 2	— 3	9	95
10	— 1	2	6	6	7	— 5	— 13	— 22	— 13	— 5	— 1	— 5	139
11	— 4	— 6	3	0	— 4	1	6	4	— 3	— 8	— 5	— 1	131
12	1	7	6	— 11	— 6	— 2	1	1	4	4	— 2	— 11	93
13	6	8	8	— 1	0	— 4	— 2	3	— 1	5	2	— 3	103
14	3	3	2	— 4	— 3	— 2	— 1	4	— 1	— 4	2	2	102
15	2	1	— 1	— 4	— 1	— 1	— 1	0	4	3	1	0	62
16	0	2	1	— 3	— 5	— 3	— 1	1	0	4	— 4	— 9	68
17	7	11	11	6	3	— 1	1	1	2	— 2	1	1	97
18	3	5	8	5	3	— 2	— 4	0	0	0	— 1	0	68
19	— 2	— 6	— 1	1	— 1	0	0	— 1	— 1	— 6	— 5	— 6	70
20	9	7	12	10	9	16	— 13	— 21	— 1	9	14	10	191
21	— 65	— 63	— 63	7	36	41	31	8	— 20	21	16	17	916
22	2	4	6	0	— 1	2	0	0	— 1	— 3	— 1	— 3	82
23	8	3	7	6	6	4	— 1	6	4	— 10	— 5	— 3	143
24	— 11	— 6	— 5	— 5	— 7	— 6	— 1	5	5	6	0	— 2	122
25	6	7	7	5	3	5	5	1	— 4	— 3	— 2	1	106
26	2	19	26	31	23	26	26	— 1	— 14	— 14	28	— 16	320
27	7	— 16	— 8	0	0	— 11	— 2	9	6	7	4	— 2	142
28	— 5	10	12	8	1	— 6	0	4	7	2	— 4	— 4	126
29	4	7	5	— 11	— 5	5	2	3	3	— 2	— 4	3	92
30	9	8	7	— 4	— 9	— 8	— 3	0	2	2	1	— 4	78
31	1	8	8	7	6	— 3	— 5	— 4	— 5	— 1	0	— 1	85
Hourly Amount.	225	288	297	201	200	220	184	156	140	169	134	143	4648

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

MAY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	10	8	5	1	— 5	— 8	— 8	— 11	— 15	— 18	— 20	4	—
2	1	— 7	2	4	6	8	8	2	— 7	— 13	— 13	1	—
3	9	1	2	4	2	— 1	— 3	— 7	— 10	— 12	— 7	— 5	—
4	3	2	1	2	4	4	0	— 1	— 2	— 1	— 2	3	—
5	5	6	8	9	8	8	6	— 6	— 11	— 11	— 12	— 6	—
6	0	1	2	3	2	3	— 1	— 4	— 8	— 9	— 8	— 2	—
7	5	2	1	0	— 6	— 7	— 13	— 24	— 15	— 16	— 14	— 4	—
8	— 25	— 28	— 17	— 7	— 8	— 10	— 1	6	8	19	25	19	—
9	— 3	— 3	— 7	— 6	— 8	— 4	7	10	14	15	5	5	—
10	0	4	6	9	8	11	10	— 7	— 16	— 8	— 3	— 7	—
11	— 6	— 9	— 9	— 9	— 2	— 3	6	7	3	5	15	9	—
12	5	— 1	0	0	0	— 1	— 6	0	1	1	0	— 10	—
13	— 10	3	2	1	1	1	— 1	— 3	1	— 1	2	— 1	—
14	5	6	0	3	4	1	1	6	5	— 3	— 6	— 6	—
15	6	4	4	4	2	1	0	0	1	— 2	— 1	— 2	—
16	2	— 2	— 3	— 2	— 4	— 4	— 3	6	0	0	0	— 1	—
17	9	10	10	9	7	6	5	0	— 4	— 12	— 12	— 14	—
18	— 2	— 2	— 5	— 6	— 7	— 9	— 10	11	12	8	10	8	—
19	2	0	— 1	— 2	— 3	0	3	— 10	— 4	0	— 5	0	—
20	8	8	7	7	7	12	10	3	— 1	— 13	— 16	— 16	—
21	— 14	— 21	— 18	— 26	— 13	— 13	— 6	6	18	45	55	41	—
22	— 13	— 3	— 1	0	5	7	2	— 2	— 4	0	— 6	— 6	—
23	1	2	1	2	2	— 1	— 3	3	— 9	— 13	— 12	— 9	—
24	— 9	— 5	— 5	— 6	— 8	— 10	— 13	8	17	16	20	19	—
25	— 1	2	3	2	2	2	1	3	5	4	0	— 6	—
26	— 3	4	2	2	4	2	2	1	6	4	— 1	— 8	—
27	1	2	— 3	— 7	— 5	— 3	— 1	6	9	10	7	— 1	—
28	3	2	6	3	4	4	— 1	— 6	— 2	0	1	— 1	—
29	6	4	3	3	2	3	4	0	— 5	— 1	— 3	1	—
30	7	9	5	7	7	6	6	— 6	— 2	— 4	— 7	— 8	—
31	1	0	— 2	— 5	— 6	— 7	— 8	6	9	11	3	— 2	—
Hourly Amount.	175	161	141	151	152	160	149	171	226	275	291	225	—

MAY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	6	8	42	21	16	18	— 1	— 9	— 5	— 9	— 4	0	252
2	1	— 6	— 9	— 8	— 1	0	0	— 2	0	1	2	3	105
3	11	5	— 1	3	7	— 1	0	— 2	— 1	1	0	1	96
4	— 4	— 8	— 6	0	— 1	— 1	1	1	3	3	4	5	62
5	— 3	— 2	— 5	— 1	2	2	2	— 1	1	1	— 1	— 1	118
6	7	6	0	0	0	— 1	— 1	— 3	— 1	0	1	2	65
7	20	48	47	34	15	4	10	12	— 20	— 2	— 13	— 16	348
8	15	9	— 2	— 5	— 6	2	— 6	— 4	— 10	— 8	— 9	— 11	260
9	— 4	— 8	3	0	0	— 7	— 6	— 3	2	3	2	0	125
10	— 6	— 5	— 4	— 2	— 2	0	10	14	9	2	— 3	— 5	151
11	— 7	— 12	— 14	— 3	4	0	— 3	— 1	2	6	2	2	141
12	— 7	— 2	3	15	8	2	— 1	— 1	0	— 1	1	4	70
13	— 8	— 10	— 7	1	3	1	2	1	2	1	2	4	69
14	— 7	— 7	— 10	— 6	— 2	— 1	1	1	3	6	2	3	95
15	— 3	— 8	— 8	— 1	— 2	2	1	2	0	0	1	1	56
16	— 3	1	0	0	— 2	3	— 1	— 4	— 1	— 3	4	10	59
17	— 15	— 13	— 5	5	3	0	0	— 2	— 1	1	— 2	— 3	148
18	2	— 1	— 2	1	0	2	2	1	0	0	2	1	104
19	10	7	2	— 2	— 5	— 1	— 1	— 2	— 1	1	2	4	68
20	— 14	— 6	— 2	3	— 6	— 17	— 14	0	19	— 3	— 6	— 6	204
21	35	39	40	— 5	— 26	— 25	— 2	5	— 8	— 23	— 20	— 15	519
22	— 4	— 4	— 3	0	1	1	3	3	2	3	1	— 1	75
23	— 3	0	— 2	3	6	3	4	— 1	— 1	4	2	— 3	90
24	12	4	— 2	— 7	— 2	1	— 2	— 5	— 6	— 4	— 2	— 2	185
25	— 9	— 7	— 8	— 6	— 2	2	3	3	5	4	3	0	83
26	— 7	— 10	— 9	— 8	— 2	— 6	— 7	3	14	14	17	4	140
27	— 6	— 3	— 11	— 20	— 12	4	1	— 1	— 1	0	3	4	121
28	— 4	— 6	— 5	— 4	— 1	6	2	— 1	— 1	2	5	5	75
29	— 3	— 4	— 11	— 6	— 2	— 4	1	2	3	5	6	4	86
30	— 9	— 12	— 10	0	10	5	— 1	— 4	— 4	— 4	— 4	— 1	138
31	0	1	— 2	— 2	2	5	6	3	3	2	3	5	94
Hourly Amount.	245	262	275	172	151	127	95	97	129	117	129	126	4202

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JUNE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	1	0	0	2	1	1	0	— 4	— 3	— 4	— 2	2	—
2	1	0	— 2	0	0	0	1	— 1	— 2	— 4	— 3	0	—
3	2	0	— 1	0	0	3	— 4	— 4	— 5	— 2	0	— 5	—
4	3	1	— 3	8	10	5	12	— 11	— 2	4	— 2	1	—
5	— 2	— 2	4	1	7	6	— 1	— 2	3	0	4	— 1	—
6	1	2	2	— 1	0	0	1	0	3	— 3	— 3	— 7	—
7	— 1	2	4	— 1	— 4	— 3	2	7	4	0	— 5	— 4	—
8	— 1	— 2	— 1	4	2	6	— 1	— 2	— 7	— 4	— 2	— 3	—
9	— 1	— 2	— 2	1	2	5	1	1	— 5	— 6	— 1	— 5	—
10	1	— 2	0	— 2	2	— 1	0	4	— 4	— 1	3	3	—
11	3	5	3	— 2	— 1	— 1	— 8	— 7	— 8	— 3	3	12	—
12	— 1	— 3	— 3	— 2	— 2	— 4	0	3	— 1	— 1	— 1	3	—
13	0	— 3	— 3	— 3	— 5	— 2	3	2	— 1	— 3	2	9	—
14	— 3	— 3	— 2	— 1	— 1	— 1	2	4	0	5	1	0	—
15	— 4	— 2	— 2	— 2	— 3	— 2	2	8	13	10	3	— 3	—
16	— 1	1	0	2	1	0	0	— 2	— 3	— 1	— 1	— 3	—
17	4	2	1	1	0	— 1	— 4	— 4	— 2	1	— 1	— 5	—
18	0	— 1	— 1	2	2	4	0	— 2	— 2	1	0	— 4	—
19	3	4	5	2	1	2	— 3	0	— 3	— 6	— 4	— 1	—
20	4	5	7	3	2	2	— 4	— 1	— 7	— 9	— 7	— 4	—
21	1	1	— 1	— 2	— 1	— 2	0	3	4	— 1	— 4	— 6	—
22	0	2	— 1	— 3	— 1	— 2	1	— 2	4	8	5	9	—
23	— 4	1	0	— 2	0	— 2	— 6	— 10	0	4	— 1	— 2	—
24	— 5	— 2	— 2	3	— 4	— 3	2	5	7	6	4	— 3	—
25	1	0	1	— 2	— 3	— 1	3	4	6	0	1	1	—
26	— 1	— 1	— 1	— 3	— 2	— 3	— 2	4	5	6	6	8	—
27	— 4	— 3	— 5	— 3	— 3	— 3	— 2	— 1	4	4	2	5	—
28	— 4	— 5	— 2	— 2	— 1	1	1	4	4	2	0	— 3	—
29	2	2	3	0	0	1	1	1	— 1	0	0	— 3	—
30	3	3	2	1	1	1	— 2	— 1	0	0	5	4	—
Hourly Amount.	62	62	64	61	62	68	69	104	113	99	76	119	—

JUNE.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	3	— 2	1	2	3	1	0	— 1	1	1	0	0	35
2	2	2	0	— 2	— 1	1	1	1	2	2	2	2	32
3	— 1	1	0	5	1	2	3	3	— 6	— 3	6	4	61
4	— 4	— 8	— 10	— 7	— 7	— 5	0	0	2	1	— 2	— 2	110
5	— 6	— 7	— 2	— 3	1	4	3	— 1	— 2	— 2	3	5	72
6	— 4	1	— 3	— 4	— 1	4	3	1	0	— 2	— 2	1	49
7	— 3	5	5	3	— 3	1	1	2	0	— 1	— 1	1	63
8	— 3	3	6	— 3	0	1	2	2	2	0	3	0	60
9	1	4	— 1	— 3	0	2	1	1	2	3	1	1	52
10	5	0	— 4	— 1	— 2	— 6	— 6	— 6	— 4	0	— 1	2	60
11	13	8	5	4	— 2	— 1	0	0	— 1	— 1	— 2	0	93
12	7	5	3	— 3	— 3	— 1	1	1	— 2	— 3	1	— 1	55
13	6	5	3	— 4	0	2	— 1	0	1	— 1	— 1	— 1	61
14	2	0	— 3	— 1	5	2	— 3	2	— 2	— 4	— 4	— 4	55
15	3	— 7	— 3	— 4	— 2	— 2	— 4	— 5	— 1	0	3	4	92
16	— 3	2	6	0	— 1	— 3	— 3	2	0	1	2	3	41
17	— 5	— 1	8	3	0	0	0	1	2	3	1	1	51
18	— 5	— 1	— 1	— 1	4	— 2	— 4	0	1	1	2	2	43
19	3	— 1	— 1	0	2	0	— 2	— 4	0	5	6	4	62
20	0	— 3	— 1	— 2	— 1	0	1	3	4	3	4	3	80
21	— 1	0	— 2	— 1	0	— 3	— 2	2	3	1	0	— 1	42
22	— 5	— 2	— 2	8	— 2	4	1	3	— 3	1	— 6	— 1	76
23	— 6	1	5	4	10	4	4	2	1	— 2	— 2	— 4	77
24	— 10	— 10	— 1	— 1	1	5	6	— 4	3	1	0	— 4	92
25	— 3	— 7	— 9	— 2	6	2	3	1	3	1	— 2	— 5	67
26	4	8	5	— 1	— 6	— 3	— 2	— 1	0	— 2	— 6	— 1	81
27	6	5	3	6	1	0	1	1	— 2	— 2	— 3	— 5	74
28	7	4	0	0	— 2	— 3	— 2	— 4	— 2	1	1	0	55
29	— 2	— 4	— 6	0	0	— 2	0	0	3	2	2	2	37
30	— 1	— 4	— 2	1	1	— 1	— 1	— 1	0	— 2	— 3	— 4	44
Hourly Amount.	124	111	101	79	68	67	61	55	55	52	72	68	1872

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE. 1	0	— 3	0	— 2	— 4	— 2	0	4	9	10	7	— 3	—
2	— 1	— 3	0	— 5	— 3	— 3	— 6	— 6	— 3	— 4	— 2	1	—
3	— 3	0	2	— 2	1	3	17	26	10	3	1	2	—
4	— 10	48	29	28	15	— 9	— 9	— 5	4	— 10	— 11	— 29	—
5	4	2	1	1	— 9	— 1	0	1	1	5	— 5	— 1	—
6	0	5	— 2	4	5	6	2	— 3	— 7	— 14	— 5	— 2	—
7	2	11	2	7	— 1	3	— 1	2	7	— 1	8	4	—
8	2	— 2	— 1	— 1	5	4	1	— 9	3	4	1	10	—
9	— 4	— 4	— 5	— 6	— 5	— 6	— 7	— 4	4	9	4	6	—
10	— 2	— 5	— 8	— 10	— 7	— 5	— 5	— 3	— 1	1	4	12	—
11	1	— 1	— 2	— 5	— 6	— 3	2	— 5	— 4	0	— 1	1	—
12	2	— 1	0	0	1	1	3	3	6	7	6	0	—
13	— 2	— 5	— 4	— 1	— 2	— 4	— 1	— 2	— 2	2	1	3	—
14	— 2	— 3	— 2	— 4	— 2	— 3	— 3	— 3	2	6	8	4	—
15	2	— 4	— 3	— 1	— 1	— 3	— 6	— 3	0	4	5	13	—
16	2	2	2	2	4	4	6	10	2	— 8	— 11	— 11	—
17	7	6	13	11	21	12	11	3	— 9	— 16	— 19	— 16	—
18	6	8	12	19	17	15	7	— 6	— 8	— 9	— 16	— 8	—
19	2	— 3	— 7	0	— 3	— 2	3	4	0	1	6	12	—
20	— 2	— 10	— 5	— 7	— 7	— 4	— 3	— 1	1	4	3	— 2	—
21	3	— 3	0	— 3	— 10	— 9	— 15	— 10	— 7	— 5	— 4	2	—
22	— 6	— 9	— 6	— 4	— 2	4	3	0	— 3	— 1	— 5	— 8	—
23	5	— 6	0	0	3	14	17	16	— 13	— 7	— 7	— 4	—
24	3	2	5	0	2	— 3	— 1	— 1	2	— 3	0	4	—
25	— 4	— 3	— 3	1	4	4	— 1	— 1	0	2	9	2	—
26	1	— 1	4	— 1	3	— 2	— 4	— 4	0	7	9	— 1	—
27	— 3	— 7	— 3	— 4	— 4	— 3	— 2	2	0	5	1	0	—
28	2	— 5	— 5	— 7	— 3	0	5	6	12	9	7	— 3	—
29	— 2	— 3	— 4	— 2	— 2	— 4	— 5	— 7	— 2	1	6	10	—
30	— 5	— 7	— 3	— 6	— 6	— 4	— 2	— 4	— 4	4	4	5	—
Hourly Amount.	90	172	133	144	158	140	148	154	126	162	176	179	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JUNE. 1	— 4	1	3	0	— 2	— 3	0	— 2	0	1	2	1	63
2	3	6	8	4	3	2	1	— 4	— 1	— 1	— 1	— 4	75
3	— 17	— 29	— 8	5	— 1	— 11	— 10	— 14	2	— 14	9	11	201
4	— 12	— 19	— 15	— 13	5	5	0	4	8	1	9	4	302
5	13	3	1	0	— 2	4	1	1	— 3	2	— 7	6	74
6	9	11	2	8	1	— 5	— 11	0	— 10	— 3	— 7	— 5	127
7	— 18	— 14	0	— 4	— 6	— 9	— 4	— 1	1	5	4	2	117
8	13	0	— 7	— 1	— 1	0	1	2	2	3	0	— 2	75
9	6	3	2	— 1	1	4	2	— 1	— 1	2	0	1	88
10	5	8	— 1	1	— 2	2	7	7	4	1	1	0	102
11	2	3	— 5	— 2	— 3	— 3	— 2	2	— 2	— 2	2	1	60
12	— 11	— 2	4	2	2	3	2	3	1	— 4	— 12	— 2	78
13	4	9	7	5	2	— 2	— 2	— 6	— 4	1	0	— 2	73
14	— 1	0	2	3	— 3	— 5	— 1	— 2	— 6	— 6	— 1	7	79
15	9	2	4	3	5	2	1	2	2	0	1	1	77
16	— 10	— 4	— 6	— 4	— 6	— 10	— 13	— 8	1	5	6	5	142
17	— 12	— 8	— 3	— 3	— 3	— 2	— 2	— 1	— 1	0	— 1	3	183
18	— 4	— 6	— 4	— 2	— 1	2	3	— 1	— 4	— 1	1	4	164
19	4	— 4	— 2	2	4	5	8	7	3	— 6	— 4	— 6	98
20	— 2	2	2	— 3	2	1	1	2	1	2	0	3	70
21	10	12	14	19	15	16	14	2	— 8	— 11	— 15	— 16	223
22	8	8	14	5	10	3	4	— 1	12	— 7	— 1	— 27	151
23	— 3	7	— 8	— 16	— 17	— 2	7	4	— 3	2	0	4	165
24	5	8	5	— 11	— 1	1	— 4	— 3	0	4	— 3	— 3	74
25	1	2	3	7	— 11	— 5	— 6	— 1	4	3	4	3	84
26	2	1	— 1	— 4	0	1	— 1	3	— 8	— 3	2	5	68
27	— 4	— 3	— 3	1	3	— 3	— 2	— 1	1	1	2	1	59
28	— 4	— 3	— 4	— 2	3	6	4	6	0	2	— 6	1	105
29	10	7	2	1	— 1	1	0	— 1	3	2	— 1	— 2	79
30	0	— 1	— 3	— 2	— 2	— 2	— 3	— 3	0	12	10	14	106
Hourly Amount.	206	186	143	134	118	120	117	95	96	107	112	146	3362

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JUNE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	3	7	7	7	9	7	8	— 8	— 12	— 11	— 10	— 3	—
2	6	10	10	11	11	12	16	— 7	— 11	— 12	— 8	— 4	—
3	1	0	— 2	2	— 1	— 1	— 7	— 13	— 6	— 3	1	— 5	—
4	— 4	— 31	— 21	— 19	— 13	2	— 1	13	7	18	24	30	—
5	1	— 2	0	1	6	0	0	— 9	— 1	— 6	0	4	—
6	1	— 1	3	— 2	— 2	— 4	— 3	0	1	8	6	— 2	—
7	— 6	— 13	— 3	— 3	2	— 1	1	8	6	6	— 2	— 4	—
8	0	2	3	4	0	4	10	8	5	0	— 8	— 12	—
9	1	— 1	— 1	1	0	3	2	8	8	3	— 3	— 10	—
10	0	1	0	0	— 1	— 2	— 3	2	4	— 6	— 14	— 9	—
11	1	3	4	5	6	3	4	12	10	1	— 4	— 12	—
12	3	4	4	3	2	3	5	— 4	— 6	— 10	— 12	— 5	—
13	1	2	4	4	3	3	3	— 1	— 1	1	— 7	— 9	—
14	3	2	— 2	— 2	— 2	— 2	— 4	— 4	— 7	— 7	— 2	5	—
15	0	1	0	— 4	— 5	— 5	— 6	— 9	— 6	— 3	4	1	—
16	— 2	— 2	— 3	— 1	— 3	— 2	— 3	0	— 6	— 4	— 4	2	—
17	— 7	— 7	— 7	— 8	— 8	— 12	— 13	15	13	15	16	9	—
18	0	2	2	3	3	1	2	5	3	6	6	— 1	—
19	3	7	11	6	10	9	11	— 3	3	7	4	— 2	—
20	2	5	3	5	5	3	3	2	1	— 3	— 8	— 5	—
21	2	6	6	7	11	13	15	— 5	— 4	3	3	— 1	—
22	— 2	— 3	— 3	— 4	— 5	— 8	— 10	— 7	— 3	— 5	11	14	—
23	— 3	2	— 2	— 1	— 3	— 9	— 9	— 7	4	— 3	— 2	1	—
24	— 12	— 13	— 16	— 13	— 14	— 14	— 16	17	20	22	23	13	—
25	— 3	— 1	— 4	— 6	— 6	— 6	— 1	5	5	8	3	4	—
26	0	0	0	0	1	4	2	— 4	— 4	— 7	— 9	— 3	—
27	0	— 1	— 6	— 6	— 7	— 9	— 9	2	1	4	7	11	—
28	6	9	8	9	6	3	3	— 11	— 15	— 11	— 6	— 3	—
29	0	1	1	— 1	— 1	0	2	1	— 1	— 1	— 4	— 8	—
30	7	8	9	5	3	3	— 1	— 9	— 11	— 11	— 6	2	—
Hourly Amount.	80	147	145	143	149	148	173	199	185	205	217	194	—

JUNE.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 2	0	— 1	— 3	— 4	0	— 2	— 1	— 2	0	0	4	111
2	— 2	0	— 3	3	— 2	— 4	— 3	— 2	— 2	— 3	— 3	0	145
3	8	16	13	9	4	6	2	6	— 8	0	— 14	— 20	148
4	14	17	7	6	— 6	— 10	— 6	— 6	— 8	— 1	— 5	3	272
5	3	4	— 5	— 8	0	0	1	2	6	— 7	— 4	— 6	76
6	— 4	— 6	— 1	— 2	1	2	9	— 1	6	1	2	0	68
7	4	— 2	— 6	2	5	6	2	0	0	— 1	0	1	84
8	— 10	— 12	— 3	— 1	2	1	— 1	0	1	— 1	1	2	91
9	— 13	— 10	— 2	— 2	— 5	— 2	3	3	4	4	2	2	93
10	4	8	7	3	6	— 2	— 4	— 5	— 2	0	— 1	0	84
11	— 12	— 13	— 12	0	4	— 1	2	0	5	4	0	3	121
12	4	1	5	3	0	— 3	0	— 1	2	5	8	3	96
13	— 6	— 3	— 3	1	— 1	0	1	2	1	0	0	2	59
14	2	2	3	— 2	2	5	2	1	3	2	2	0	68
15	— 2	13	15	7	2	0	0	— 3	— 3	— 2	— 1	— 2	94
16	4	5	— 1	— 3	— 2	0	1	5	7	2	— 2	— 5	69
17	3	2	— 5	— 6	2	2	— 3	— 2	— 3	— 2	— 1	— 1	162
18	— 9	— 12	— 7	— 8	— 4	2	1	3	5	3	— 1	0	89
19	— 12	— 12	— 15	— 12	— 8	— 4	— 7	— 5	— 5	0	1	3	160
20	— 3	1	1	0	— 1	3	0	— 2	— 1	— 2	0	0	59
21	— 8	— 7	— 7	— 13	— 8	— 6	— 4	3	5	8	6	5	156
22	10	5	— 4	— 3	— 2	4	3	3	— 3	4	4	15	135
23	— 1	— 4	3	5	7	1	— 2	— 1	1	— 3	— 4	— 8	86
24	16	3	6	9	2	— 4	— 1	1	— 3	— 4	0	— 3	245
25	3	1	— 2	— 8	4	5	6	2	— 1	0	1	1	86
26	— 1	— 5	— 5	5	5	0	2	— 1	4	2	— 2	0	66
27	8	3	0	— 1	1	3	0	— 1	— 1	1	2	4	88
28	— 3	2	7	7	— 2	— 6	— 3	— 6	0	0	5	2	133
29	— 7	— 4	2	0	— 2	— 1	— 2	2	1	3	5	5	55
30	4	8	9	10	8	1	— 1	— 3	— 5	— 11	— 8	— 9	152
Hourly Amount.	182	181	160	142	102	84	74	73	98	76	85	109	3351

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.′1.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	— 4	— 5	— 5	0	1	— 2	11	3	— 2	— 1	13	6	—
	2	0	1	3	7	— 3	— 2	3	— 4	3	5	4	10	—
	3	— 1	0	2	4	8	5	2	1	2	— 1	5	— 3	—
	4	2	1	1	6	3	6	2	1	2	4	— 1	— 4	—
	5	2	3	3	0	2	0	— 3	— 2	— 5	— 5	— 3	4	—
	6	1	2	1	0	2	2	3	— 2	2	0	— 5	— 4	—
	7	1	1	— 1	— 2	1	0	— 2	— 4	— 3	— 1	— 4	— 2	—
	8	1	3	0	— 1	3	3	2	— 1	— 5	0	1	0	—
	9	1	0	2	3	— 1	— 3	— 3	— 4	— 3	0	0	— 2	—
	10	— 3	— 4	— 2	0	1	3	2	— 3	— 4	1	4	8	—
	11	— 1	— 2	0	— 1	— 3	— 4	1	— 2	— 8	— 3	4	2	—
	12	— 2	— 2	0	0	— 1	1	— 1	2	2	2	2	— 2	—
	13	1	2	1	0	1	0	0	5	— 2	— 3	— 5	— 3	—
	14	2	2	0	0	0	— 2	0	4	0	— 2	— 6	— 8	—
	15	5	3	1	— 1	— 1	— 3	— 4	— 5	— 6	— 3	— 4	0	—
	16	3	5	6	1	— 4	— 5	— 5	— 7	— 4	— 6	— 6	— 4	—
	17	0	3	— 1	4	— 5	— 1	— 3	— 1	2	5	3	— 1	—
	18	1	1	1	2	3	3	8	5	7	3	1	— 4	—
	19	0	— 1	— 1	0	0	1	— 2	— 1	4	3	0	— 2	—
	20	— 3	1	0	0	— 1	0	— 4	— 5	— 3	1	6	12	—
	21	— 6	— 6	— 4	— 5	2	5	4	9	4	— 1	1	— 2	—
	22	3	2	— 1	— 3	0	— 4	— 9	— 12	— 6	— 5	— 4	4	—
	23	— 2	— 3	— 2	— 2	— 4	— 4	— 6	— 3	— 2	1	2	3	—
	24	2	0	2	— 1	— 3	— 5	— 6	— 6	1	— 4	— 6	— 8	—
	25	— 7	— 3	— 4	— 2	— 1	— 1	1	6	10	10	6	8	—
	26	1	2	1	1	0	1	— 1	— 4	— 1	2	2	— 5	—
	27	— 1	0	— 2	— 1	1	1	2	5	3	— 1	— 7	— 8	—
	28	1	0	— 1	— 1	0	— 1	3	5	6	3	— 6	— 8	—
	29	2	— 4	— 1	— 8	0	6	3	9	5	— 1	— 4	7	—
	30	— 1	— 1	0	— 2	2	3	3	3	2	2	5	— 1	—
	31	1	— 1	— 2	— 2	— 5	— 4	— 4	4	2	— 2	— 1	2	—
Hourly Amount.		61	64	51	60	62	81	103	128	111	81	121	137	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JULY.	1	1	— 4	— 1	— 4	— 5	— 3	0	— 11	3	— 1	2	2	90
	2	4	4	— 3	— 4	— 7	— 5	— 1	— 7	— 3	— 2	— 3	0	88
	3	— 8	— 7	— 6	— 3	0	— 2	— 1	1	1	1	— 1	4	69
	4	— 7	— 10	— 5	— 6	— 3	0	— 1	0	4	3	3	1	76
	5	1	— 1	— 1	2	3	3	— 2	1	0	0	4	2	49
	6	— 3	— 1	0	— 4	— 1	0	— 1	— 1	0	0	1	2	38
	7	3	6	4	6	2	1	— 1	— 2	— 2	— 2	— 1	— 3	55
	8	— 2	6	1	— 6	0	— 3	— 2	0	2	— 1	2	0	45
	9	— 3	1	8	4	2	3	3	2	1	— 2	— 1	— 3	55
	10	3	4	— 5	— 2	— 1	2	0	1	0	0	— 1	0	54
	11	7	6	7	1	0	0	— 1	0	0	— 1	0	— 1	55
	12	— 5	— 7	— 3	7	5	— 1	1	2	3	— 2	— 1	1	55
	13	— 3	— 6	— 8	— 4	— 1	2	3	5	4	3	2	3	67
	14	— 2	0	2	1	— 3	— 1	0	3	2	2	1	3	46
	15	5	6	5	0	— 1	— 3	0	— 1	— 1	2	2	2	64
	16	— 1	1	4	4	0	— 2	— 2	1	1	3	1	— 1	77
	17	6	4	— 2	— 5	— 2	0	0	— 5	— 4	— 2	0	— 1	60
	18	— 8	— 8	— 5	— 5	— 4	0	3	2	1	0	0	0	75
	19	— 3	2	1	2	4	2	2	3	— 2	— 1	— 1	— 3	41
	20	1	— 7	— 10	0	7	— 2	— 1	2	— 2	— 2	— 2	1	73
	21	— 4	1	— 2	2	2	3	1	0	4	0	0	— 1	69
	22	6	6	4	6	6	6	— 1	2	— 5	— 1	0	— 5	101
	23	9	15	12	0	— 5	— 4	1	3	— 3	2	— 2	— 3	93
	24	0	0	9	5	4	3	— 1	2	1	— 2	— 2	— 2	75
	25	4	0	4	— 2	— 2	— 2	— 3	— 3	— 2	— 2	— 1	0	84
	26	— 9	— 7	— 5	2	5	5	3	3	0	0	1	2	63
	27	— 1	3	3	2	0	2	2	0	2	2	0	0	49
	28	— 7	— 6	— 4	1	— 1	0	2	— 1	— 2	0	— 2	0	61
	29	11	7	1	— 1	— 5	— 4	— 3	— 2	— 3	1	— 2	— 1	91
	30	— 3	— 12	— 8	— 5	1	— 1	2	1	1	1	1	1	62
	31	8	5	5	4	4	— 2	— 3	0	— 1	— 1	0	1	64
Hourly Amount.		138	153	138	100	86	67	47	67	60	42	37	49	2044

UNIVERSITY OF ILLINOIS LIBRARY
SEP 1 1921

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	11	16	21	— 2	0	— 8	2	— 7	— 9	— 4	— 10	— 13	—
2	3	— 4	— 3	— 11	12	— 1	1	5	3	0	— 2	3	—
3	— 5	0	1	1	2	4	— 3	— 5	— 12	— 2	1	10	—
4	— 3	— 2	6	— 3	— 3	— 2	— 3	— 2	1	1	— 2	2	—
5	6	1	1	2	4	4	5	— 2	— 3	— 8	— 1	4	—
6	— 4	— 4	— 1	— 3	— 4	0	4	3	3	— 1	— 3	1	—
7	— 3	— 3	— 5	— 2	— 3	0	— 1	— 2	— 1	0	0	0	—
8	— 6	— 3	4	3	0	— 1	9	12	— 1	— 3	0	6	—
9	— 7	— 3	— 7	— 1	2	12	2	5	5	5	0	— 10	—
10	5	3	— 2	— 3	— 3	— 2	— 2	3	— 1	7	3	— 1	—
11	— 3	— 5	— 5	— 1	0	0	— 2	1	4	5	8	4	—
12	0	— 1	— 1	— 1	— 4	— 2	1	7	8	3	— 3	— 3	—
13	0	— 2	— 2	— 3	— 1	— 2	— 4	— 3	— 4	— 4	— 2	4	—
14	1	— 1	— 2	— 4	— 2	— 2	— 6	— 6	— 2	4	8	8	—
15	— 4	— 4	— 4	— 3	— 4	— 4	— 8	— 5	— 4	— 2	4	5	—
16	4	3	— 5	— 5	— 2	— 10	— 6	— 7	— 3	— 4	0	8	—
17	— 6	— 3	0	15	11	10	14	8	4	2	3	— 12	—
18	4	2	— 1	8	— 5	— 8	— 8	— 3	1	2	3	0	—
19	1	3	1	1	2	2	3	2	3	7	— 1	— 2	—
20	— 1	0	— 1	1	— 3	— 4	— 4	— 7	— 3	7	10	— 1	—
21	0	3	— 7	— 5	— 3	— 9	— 7	— 6	— 5	— 8	2	6	—
22	7	9	9	10	8	4	1	3	— 1	— 7	— 4	3	—
23	9	7	5	3	0	6	4	2	6	2	— 5	— 5	—
24	— 8	— 5	— 4	3	4	4	2	2	— 3	— 6	1	7	—
25	5	— 1	— 1	0	— 2	6	2	5	5	7	— 1	— 4	—
26	1	2	1	2	0	2	2	0	1	3	0	— 1	—
27	0	— 1	— 1	— 4	— 4	— 2	— 1	3	7	7	4	— 6	—
28	— 1	— 1	— 1	— 5	— 9	— 3	1	— 1	— 3	— 3	— 3	— 5	—
29	— 4	0	0	10	8	16	12	4	— 1	— 1	— 1	— 13	—
30	1	— 1	— 2	1	0	1	2	2	8	— 1	— 2	2	—
31	— 4	— 2	0	1	— 1	— 3	— 8	— 8	— 4	— 1	1	6	—
Hourly Amount.	117	95	104	117	106	134	130	131	119	117	88	155	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 2	8	19	15	14	5	— 29	— 15	— 36	0	9	— 1	256
2	— 8	1	15	9	6	3	— 3	— 6	— 1	10	— 3	— 2	115
3	3	7	5	5	5	3	— 3	— 4	— 6	— 5	— 2	— 2	96
4	1	5	5	3	— 7	— 6	— 5	— 2	— 1	0	1	— 1	67
5	5	2	2	0	— 7	— 3	0	2	— 1	0	— 1	— 2	66
6	— 1	0	8	5	2	3	4	4	0	0	— 3	— 4	65
7	4	6	0	— 5	— 3	1	6	2	7	7	— 3	— 3	67
8	0	— 14	— 1	8	3	0	2	4	— 1	— 6	— 2	— 4	93
9	— 9	— 8	— 7	— 18	— 4	3	6	— 1	3	0	3	6	127
10	— 3	3	6	7	3	— 1	— 2	— 2	— 4	— 2	— 2	0	70
11	— 1	— 6	0	0	— 3	0	1	— 1	1	2	0	1	54
12	— 1	5	— 2	— 3	— 3	1	2	— 1	— 2	1	1	2	58
13	12	6	— 1	— 4	— 5	0	2	2	0	3	5	4	75
14	3	2	3	5	7	5	4	— 1	— 3	— 1	— 4	1	85
15	1	8	12	5	2	3	— 2	5	— 2	1	3	2	97
16	8	6	3	7	6	9	9	4	1	— 11	— 14	— 16	151
17	— 29	— 27	— 16	2	— 1	— 11	— 4	8	9	8	8	6	217
18	3	11	10	— 4	— 7	— 3	— 2	— 1	— 2	— 2	9	10	109
19	— 4	— 5	— 12	— 9	— 7	— 1	— 7	— 2	10	6	6	4	101
20	— 3	13	5	3	— 1	15	9	3	— 3	1	6	0	104
21	6	5	4	— 8	— 12	— 14	6	5	— 3	2	2	4	132
22	10	— 27	— 29	— 22	— 9	— 8	5	— 10	15	8	0	7	216
23	— 1	— 2	— 14	1	10	9	7	— 5	12	— 6	— 12	— 13	146
24	8	1	— 15	— 13	— 9	— 1	7	4	4	7	1	2	121
25	— 2	— 7	— 10	— 9	— 5	— 2	3	3	4	2	1	0	87
26	2	1	2	— 2	— 6	— 3	— 2	— 2	— 2	1	1	2	41
27	— 2	1	4	5	2	2	2	— 2	0	1	1	1	63
28	— 3	2	4	16	28	7	— 24	2	3	— 12	— 6	2	145
29	— 8	— 5	— 9	— 1	— 5	— 11	10	6	5	— 9	— 3	2	144
30	— 2	2	6	0	— 1	0	0	— 1	— 1	— 4	— 2	— 3	45
31	13	11	8	1	— 1	— 1	1	— 1	— 2	0	— 1	1	80
Hourly Amount.	158	207	237	195	184	134	169	111	144	118	115	108	3293

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0,00001 C. G. S.

JULY. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 5	— 6	— 12	4	2	7	— 1	13	12	3	1	6	—
2	— 6	0	0	5	— 9	— 1	0	0	— 1	2	1	— 4	—
3	— 1	— 1	— 3	— 3	— 3	— 2	3	8	13	4	0	— 9	—
4	— 3	— 3	— 9	— 1	— 1	— 2	0	2	2	5	4	7	—
5	— 4	1	— 1	0	— 1	0	1	3	— 1	2	— 6	— 5	—
6	1	3	1	3	5	3	1	— 1	— 6	— 2	0	— 4	—
7	1	4	4	3	4	3	5	5	3	0	— 4	— 7	—
8	5	1	— 2	— 2	1	— 1	— 5	— 7	3	7	2	— 3	—
9	5	0	2	— 4	— 3	— 7	0	8	6	— 2	0	6	—
10	0	0	3	5	3	3	5	— 1	— 4	— 9	— 5	3	—
11	3	3	3	— 1	0	1	1	— 3	— 4	— 11	— 13	— 4	—
12	1	— 1	— 2	— 3	— 1	— 2	— 4	— 4	— 7	— 5	— 1	4	—
13	— 2	— 1	— 2	— 3	— 7	— 7	— 9	— 2	0	3	6	5	—
14	0	2	1	1	0	0	— 1	— 1	1	— 4	— 1	— 3	—
15	3	4	4	3	4	6	10	4	4	— 1	— 4	— 11	—
16	— 1	— 1	4	6	4	6	8	15	13	10	4	— 8	—
17	— 1	— 2	— 5	— 12	— 11	— 10	— 8	— 1	— 1	1	11	26	—
18	— 2	— 2	3	— 2	7	6	6	0	0	1	1	2	—
19	0	0	3	3	1	0	— 2	— 5	— 12	— 14	— 1	9	—
20	1	0	3	4	5	9	7	1	— 2	— 10	— 11	— 2	—
21	— 1	— 1	6	1	2	4	— 1	3	6	9	— 1	— 4	—
22	— 4	— 5	— 6	— 5	— 3	2	0	0	3	9	0	— 4	—
23	— 3	— 2	0	0	2	0	— 1	— 4	— 11	— 6	3	5	—
24	6	2	0	— 3	— 2	1	3	— 8	— 6	5	1	— 2	—
25	— 1	2	1	1	2	— 3	— 3	— 19	— 14	— 4	8	9	—
26	0	— 1	— 1	— 2	— 1	— 1	0	8	1	— 3	— 3	— 3	—
27	2	3	2	2	— 1	— 1	— 5	— 2	0	4	7	— 1	—
28	0	— 1	— 2	0	0	— 3	— 6	— 3	2	3	— 1	1	—
29	2	1	0	— 2	— 5	— 9	— 6	— 1	5	8	5	— 5	—
30	— 1	0	1	— 2	— 2	— 5	— 3	— 3	— 4	0	3	4	—
31	3	1	1	0	0	1	2	2	3	0	— 3	— 5	—
Hourly Amount.	68	54	87	86	92	106	107	137	150	147	111	171	—

JULY. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	1	— 11	— 16	— 10	— 5	1	18	10	17	— 2	— 9	— 5	177
2	1	— 1	— 3	3	6	1	3	3	— 3	— 8	— 2	1	64
3	— 6	— 8	— 4	— 2	— 1	0	2	1	2	1	— 3	— 5	85
4	8	0	— 3	— 2	— 2	4	5	3	0	— 1	0	— 1	68
5	— 3	5	1	— 1	2	5	2	— 1	1	0	1	1	48
6	— 1	— 1	— 5	0	0	1	0	— 2	1	1	2	3	47
7	— 8	— 9	— 5	2	1	— 1	— 3	0	— 2	— 4	1	3	82
8	1	5	— 2	— 11	— 7	— 1	0	0	2	4	2	0	74
9	— 3	— 8	— 6	7	0	— 3	— 3	2	3	5	3	4	90
10	4	2	1	— 5	3	1	1	2	3	2	3	3	71
11	1	5	4	8	4	— 2	— 3	— 2	— 2	— 2	— 1	0	81
12	7	1	— 7	— 2	2	3	1	3	5	2	— 1	0	69
13	— 1	4	11	8	3	0	— 2	— 1	2	1	— 1	2	83
14	— 5	— 4	4	5	0	4	2	— 1	1	1	2	1	45
15	— 10	— 11	6	2	1	— 3	0	— 5	— 4	— 4	— 3	— 3	110
16	— 9	— 13	— 10	— 11	— 5	— 6	— 6	— 3	0	6	7	5	161
17	35	30	19	2	— 1	— 1	— 4	— 14	— 13	— 12	— 9	— 7	236
18	— 3	— 5	— 8	— 3	3	2	0	0	1	0	— 4	— 5	66
19	3	5	5	1	0	2	4	2	— 4	— 2	3	— 1	82
20	7	5	5	— 11	— 7	— 10	— 7	1	4	0	— 2	2	116
21	— 10	— 9	— 3	7	9	11	— 4	— 4	1	— 1	— 2	— 4	104
22	3	12	15	6	1	0	— 6	5	— 4	— 3	3	1	100
23	— 1	— 1	7	2	— 5	— 6	— 2	5	— 3	5	9	9	92
24	— 4	2	11	6	4	— 4	— 6	— 4	— 1	— 1	2	— 1	85
25	10	9	4	9	4	— 1	— 4	— 5	— 4	— 2	— 1	0	120
26	4	— 2	— 4	— 5	1	4	2	2	2	2	0	1	53
27	— 7	— 6	— 5	1	— 1	0	0	1	3	2	1	2	59
28	7	12	6	— 4	— 12	— 5	17	— 2	— 2	7	4	— 2	102
29	— 8	— 5	0	— 2	4	6	6	— 4	— 3	6	2	1	96
30	9	1	— 6	— 3	1	2	3	2	1	1	0	2	59
31	— 9	— 3	— 3	3	4	5	0	— 1	0	— 1	— 2	— 3	55
Hourly Amount.	189	195	189	144	99	95	116	91	94	89	85	78	2780

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST. 1	2	4	6	6	7	5	2	— 4	0	— 3	— 5	— 5	—
2	6	5	3	3	— 1	— 1	— 6	— 6	— 6	— 9	2	11	—
3	0	3	0	1	— 1	— 1	6	2	5	4	4	1	—
4	— 1	— 3	5	— 2	0	— 3	— 2	1	— 1	0	— 5	1	—
5	— 6	— 11	— 5	— 5	3	2	1	1	3	6	8	— 4	—
6	0	1	1	4	1	1	0	3	— 2	— 2	3	3	—
7	0	0	2	5	3	2	1	5	8	4	— 1	— 3	—
8	— 1	— 1	— 1	— 1	0	4	4	2	1	— 3	0	1	—
9	0	0	0	0	0	2	8	8	7	5	0	— 5	—
10	— 1	— 2	— 3	1	1	3	4	6	3	2	3	3	—
11	2	4	3	0	0	1	4	7	8	3	0	— 4	—
12	2	1	0	1	2	0	3	3	1	— 1	— 8	— 8	—
13	0	2	4	2	3	2	— 3	— 6	— 4	— 2	1	0	—
14	2	1	0	1	1	— 1	— 5	— 3	— 2	— 4	— 5	— 3	—
15	2	1	— 2	— 5	— 3	— 3	0	— 1	— 1	1	1	8	—
16	0	— 2	— 2	— 6	— 7	— 8	— 12	— 5	0	3	10	4	—
17	— 12	— 5	— 5	— 5	— 8	— 4	— 5	1	3	7	6	5	—
18	— 4	0	3	1	2	0	— 2	— 5	— 4	— 2	— 2	0	—
19	— 1	— 3	— 6	— 1	— 2	— 1	4	4	4	4	1	2	—
20	2	— 2	— 3	— 1	— 3	— 2	— 5	— 5	— 6	— 4	3	4	—
21	2	1	0	0	1	3	— 2	— 5	1	3	— 3	— 9	—
22	— 1	— 2	— 3	— 4	0	3	7	14	10	7	— 1	— 4	—
23	1	1	0	1	4	1	— 6	6	— 6	— 2	2	1	—
24	0	— 2	— 2	— 1	— 3	— 1	— 3	— 4	— 3	1	4	4	—
25	0	0	— 1	0	3	4	4	4	— 2	— 6	— 2	2	—
26	2	2	2	1	— 1	— 2	1	— 1	— 4	— 4	— 2	3	—
27	5	6	4	2	0	— 2	— 5	— 5	— 7	— 3	— 3	— 2	—
28	— 1	— 1	— 2	— 2	— 2	— 2	5	3	— 3	— 4	0	1	—
29	1	2	0	0	— 2	— 3	— 3	— 4	— 5	— 2	0	3	—
30	1	0	0	0	0	2	3	0	0	— 2	— 4	— 4	—
31	2	3	2	0	0	4	— 1	— 1	— 1	— 1	— 4	— 7	—
Hourly Amount.	60	71	70	62	64	73	117	125	111	104	93	115	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
AUGUST. 1	— 8	— 10	— 7	— 7	— 7	— 2	2	2	4	4	3	6	111
2	12	10	2	— 5	— 6	— 4	— 3	— 4	— 3	— 4	— 1	— 2	115
3	0	— 4	— 1	2	— 1	9	— 4	3	— 2	— 2	1	— 3	60
4	0	— 2	— 4	2	7	5	3	3	1	1	0	— 2	54
5	— 2	0	5	0	— 4	— 4	— 1	— 1	— 2	— 1	0	0	75
6	1	— 3	— 3	— 1	— 2	0	— 4	— 2	— 2	— 2	— 1	0	42
7	— 4	— 5	— 2	— 2	— 1	— 3	— 1	1	0	1	2	0	56
8	1	— 1	— 5	— 2	— 2	3	1	— 1	— 1	— 2	— 2	— 1	41
9	— 7	— 6	— 5	0	— 1	— 4	— 2	0	1	1	1	0	63
10	2	— 1	— 5	— 3	— 5	— 5	— 4	— 3	— 3	— 2	— 1	— 1	67
11	— 4	— 4	3	0	— 4	— 2	— 3	— 2	— 1	2	1	0	62
12	— 2	5	0	— 2	1	— 2	0	3	1	1	1	0	48
13	2	3	3	4	1	— 3	— 2	— 1	0	0	0	1	49
14	2	6	4	0	0	1	— 2	— 2	— 1	0	0	0	46
15	11	9	5	— 1	0	— 1	— 4	— 4	— 3	— 3	— 3	— 1	73
16	7	12	13	13	8	0	15	1	— 1	— 6	— 5	— 7	147
17	1	7	1	3	— 3	1	3	— 4	— 1	0	— 4	0	94
18	— 3	— 1	0	— 3	4	5	1	7	4	— 2	— 5	— 2	62
19	2	0	0	2	6	— 3	— 1	— 2	0	0	0	0	49
20	1	0	6	6	6	— 1	0	0	— 1	— 1	0	0	62
21	— 8	— 6	— 2	2	6	0	4	1	1	1	0	0	61
22	— 3	— 1	— 13	— 4	— 3	1	0	0	2	2	3	2	90
23	— 2	— 3	1	5	3	4	0	1	2	2	1	1	56
24	3	0	2	4	4	2	— 2	— 2	— 2	— 1	— 1	0	51
25	2	— 6	— 5	— 6	— 3	1	1	3	2	2	2	2	63
26	1	0	0	— 3	— 3	— 2	— 1	1	1	2	3	4	46
27	— 3	0	1	— 4	1	6	7	4	2	1	2	— 1	76
28	— 2	0	— 1	— 3	— 2	0	0	1	1	1	0	1	38
29	5	6	4	4	0	— 2	— 2	— 1	0	0	0	0	49
30	2	— 1	1	3	— 1	— 1	— 2	0	0	0	1	2	30
31	— 6	0	2	6	4	— 2	— 1	0	2	2	2	2	55
Hourly Amount.	109	112	106	102	99	79	76	60	47	49	46	41	1991

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

AUGUST.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0	2	— 3	— 4	— 5	— 3	2	7	1	2	1	— 1	—
2	— 3	— 4	— 6	— 8	— 8	— 6	— 5	— 6	— 4	0	6	7	—
3	— 6	— 5	3	4	11	3	— 2	1	— 5	— 3	4	2	—
4	5	26	12	10	6	9	15	— 6	— 10	— 7	— 20	— 20	—
5	— 4	20	7	5	— 1	— 1	— 1	4	2	5	0	1	—
6	— 5	— 4	— 3	— 4	— 1	— 2	— 2	1	5	5	1	0	—
7	1	0	— 6	— 5	— 3	— 3	0	— 1	0	2	5	0	—
8	— 1	— 3	— 2	— 2	— 1	1	2	5	5	5	3	— 1	—
9	1	— 1	— 3	— 4	— 4	— 1	1	0	1	1	3	0	—
10	— 2	— 4	— 4	— 5	— 5	— 2	4	4	1	— 3	— 3	— 2	—
11	— 2	— 4	— 6	— 6	— 2	— 2	0	4	5	6	— 2	— 7	—
12	6	6	4	14	— 4	— 9	— 2	— 7	— 5	— 10	— 4	16	—
13	4	4	2	4	— 1	2	— 4	— 3	— 4	5	4	5	—
14	— 3	— 4	— 4	— 2	— 1	— 1	0	— 2	2	6	0	— 2	—
15	— 1	— 2	— 4	— 4	— 2	— 3	— 1	4	1	— 2	— 4	— 4	—
16	0	0	7	14	16	21	13	21	22	12	— 24	— 29	—
17	21	12	15	10	22	16	9	— 2	— 11	— 25	— 15	— 11	—
18	1	4	7	6	— 3	— 7	— 12	0	1	5	1	— 7	—
19	— 1	— 5	3	0	0	0	0	1	2	1	0	7	—
20	3	1	1	4	8	3	— 4	— 2	2	3	0	0	—
21	2	1	1	1	6	6	3	— 4	— 1	— 6	— 3	— 2	—
22	— 1	— 1	— 2	— 1	— 1	2	2	4	4	6	5	5	—
23	— 2	— 6	— 1	— 4	— 2	— 2	— 4	0	0	4	0	1	—
24	— 1	— 4	— 7	— 3	— 7	— 3	— 1	— 1	— 1	— 1	4	6	—
25	— 3	— 7	— 3	— 5	— 9	— 5	— 9	— 6	4	1	2	3	—
26	— 3	— 5	— 4	— 3	— 2	— 2	— 5	1	3	0	4	6	—
27	— 4	— 6	— 7	— 7	— 3	— 2	— 8	— 13	— 10	— 9	1	5	—
28	— 7	— 13	— 1	— 2	— 5	— 8	— 8	— 7	— 8	2	10	8	—
29	— 1	— 1	— 1	— 5	— 4	— 3	— 4	— 4	— 1	3	5	1	—
30	— 2	— 2	— 3	— 2	— 3	0	3	4	5	4	3	— 1	—
31	14	6	3	3	9	2	18	3	— 15	— 15	2	2	—
Hourly Amount.	110	163	135	151	155	130	144	128	141	159	139	162	—

AUGUST.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 4	4	1	2	4	2	1	1	— 2	— 4	— 1	— 4	61
2	4	4	6	9	5	2	1	6	5	3	— 2	2	112
3	— 2	— 14	— 4	10	27	0	— 19	0	10	— 15	— 9	4	163
4	— 27	— 27	— 8	— 15	— 15	— 4	9	1	16	5	— 10	0	283
5	1	1	4	4	6	4	0	1	— 2	3	1	— 1	79
6	0	0	0	1	3	7	3	1	0	0	— 3	2	53
7	— 1	0	3	6	3	— 2	0	— 1	— 5	— 3	— 5	— 3	58
8	— 5	— 11	0	3	4	1	— 2	2	— 1	— 1	1	1	63
9	— 2	— 1	0	— 3	— 2	2	1	1	— 1	1	0	0	34
10	2	3	9	13	9	7	6	5	1	— 2	— 1	— 2	99
11	— 3	— 1	1	— 1	1	1	2	4	8	9	9	11	97
12	15	— 11	— 17	— 22	— 13	1	2	— 19	1	— 6	3	4	201
13	5	4	3	4	5	4	2	0	— 5	— 3	— 3	— 5	85
14	— 1	2	2	3	4	4	4	0	— 3	— 2	— 4	— 5	61
15	— 2	— 2	— 4	— 2	4	5	11	10	5	2	6	0	85
16	— 16	— 2	— 31	— 23	— 33	— 34	— 25	— 9	— 5	7	10	24	398
17	5	3	— 5	0	— 21	6	— 7	27	4	4	9	— 2	262
18	— 3	4	2	2	— 1	8	4	— 17	— 5	1	— 9	— 3	113
19	0	2	— 6	— 8	— 2	— 10	5	6	4	4	5	11	83
20	— 1	— 9	— 8	— 6	— 4	— 3	1	— 1	— 1	0	4	4	73
21	2	5	3	5	2	— 4	— 3	— 3	— 5	— 2	0	— 4	74
22	— 4	— 11	— 5	— 4	— 4	0	5	4	1	6	5	— 1	84
23	1	2	4	2	0	0	3	2	— 1	0	0	— 2	43
24	3	2	4	3	3	3	2	4	2	— 4	— 5	— 8	82
25	2	6	6	7	6	— 2	4	0	— 6	0	0	— 3	100
26	4	10	13	13	10	3	2	— 3	— 2	— 1	0	— 5	104
27	10	20	20	15	12	2	— 4	— 6	— 6	— 3	— 3	— 2	178
28	5	12	11	8	9	1	3	4	1	2	2	1	138
29	— 2	— 3	— 3	0	1	2	1	— 1	— 3	— 3	— 3	— 6	61
30	— 2	— 4	— 1	— 3	3	2	1	2	1	3	4	— 2	60
31	11	9	— 1	— 18	— 12	— 3	— 5	— 14	— 1	2	2	2	172
Hourly Amount.	145	189	185	215	228	130	138	155	113	101	119	124	3559

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST. 1	— 3	— 3	— 2	— 2	— 2	— 4	— 4	— 8	0	1	9	14	—
2	2	3	5	6	7	7	8	4	4	— 4	— 18	— 15	—
3	6	8	4	5	0	7	7	— 8	— 6	— 6	— 5	0	—
4	— 6	— 18	— 11	— 5	— 3	— 4	— 9	15	17	18	16	9	—
5	5	— 5	— 5	— 2	— 1	— 1	— 5	— 6	— 7	— 1	4	3	—
6	— 2	— 3	— 5	— 6	— 5	— 4	— 5	7	2	4	5	3	—
7	2	6	12	13	13	15	14	— 2	— 3	— 5	— 7	— 6	—
8	0	0	— 2	— 3	— 6	— 6	— 3	2	1	1	4	— 1	—
9	0	3	5	6	9	6	6	— 10	— 8	— 4	— 1	2	—
10	3	3	2	2	1	— 3	— 2	— 4	— 6	— 5	— 7	— 5	—
11	— 3	— 2	— 2	— 3	— 4	— 7	— 10	6	5	1	4	5	—
12	— 1	— 1	— 1	— 6	4	6	— 4	2	3	7	7	— 7	—
13	0	— 1	— 1	— 2	0	— 1	2	13	8	1	— 3	— 1	—
14	1	0	1	— 1	— 1	— 3	— 4	0	— 2	0	6	11	—
15	— 1	— 1	0	— 2	— 3	— 4	— 7	— 2	2	6	13	8	—
16	3	4	1	— 2	— 2	— 5	— 3	— 13	— 17	— 14	9	4	—
17	— 13	— 7	— 7	— 4	— 10	— 7	— 3	— 1	7	13	9	3	—
18	1	0	2	4	9	16	21	6	5	2	— 3	— 6	—
19	— 1	0	— 5	— 3	— 4	— 4	— 7	— 2	— 5	— 4	6	6	—
20	0	2	2	2	— 2	4	7	0	— 2	— 5	— 6	— 3	—
21	5	6	8	8	7	11	19	— 3	— 5	3	— 1	— 3	—
22	— 6	— 8	— 10	— 15	— 13	— 17	— 19	5	11	19	24	24	—
23	0	2	— 1	1	0	4	4	4	1	— 6	— 8	— 4	—
24	6	7	8	6	6	5	5	— 5	— 9	— 12	— 12	— 6	—
25	4	5	2	2	3	1	2	— 3	— 10	— 10	— 9	— 9	—
26	0	— 1	— 2	— 3	— 3	— 5	— 4	— 3	— 5	— 3	— 4	0	—
27	1	1	1	1	— 3	— 4	— 2	6	5	2	— 5	— 2	—
28	5	8	1	1	5	5	5	— 6	— 2	— 8	— 18	— 8	—
29	1	1	2	4	4	3	2	4	— 1	— 7	— 9	— 9	—
30	— 1	— 2	— 2	— 3	— 3	— 7	— 7	— 1	3	6	5	3	—
31	— 10	— 5	0	1	— 2	0	— 5	4	14	12	— 3	— 8	
Hourly Amount.	92	116	112	124	135	176	205	155	176	190	240	188	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
AUGUST. 1	12	2	— 1	3	3	1	0	— 3	— 1	— 1	— 3	0	82
2	— 10	— 2	1	0	— 1	2	2	— 1	— 1	— 2	2	2	109
3	— 1	0	— 8	— 8	— 13	4	18	0	— 6	6	5	— 5	136
4	10	6	— 6	— 7	— 3	— 4	— 6	— 1	— 5	0	9	3	191
5	0	— 3	— 5	— 6	— 2	— 1	3	3	4	— 2	— 3	— 2	79
6	10	6	7	— 1	— 6	— 3	— 3	— 3	1	2	2	1	96
7	— 13	— 15	— 12	— 10	— 6	— 2	0	1	3	2	1	0	163
8	— 1	15	10	3	— 3	— 2	2	1	2	3	1	1	73
9	— 1	— 8	— 9	— 6	0	— 2	1	1	3	3	2	3	99
10	— 2	7	5	1	— 3	— 3	— 1	— 2	1	0	— 1	— 2	71
11	0	— 3	— 6	— 4	5	4	4	2	1	1	0	— 2	84
12	— 15	4	6	8	4	— 2	— 4	6	— 3	0	— 2	0	103
13	— 6	— 9	— 10	— 10	— 3	2	1	1	6	4	3	3	91
14	0	— 2	0	— 3	— 2	0	0	0	1	0	0	0	38
15	2	0	3	6	2	— 2	— 4	— 6	— 3	— 1	— 1	2	81
16	0	— 3	21	20	25	18	5	1	— 6	— 8	— 9	— 13	206
17	— 1	0	8	6	15	— 5	3	— 13	— 5	— 3	— 4	3	150
18	— 15	— 19	— 13	— 9	— 6	— 9	— 3	11	3	— 1	6	— 1	171
19	16	14	6	3	0	7	— 3	— 3	— 1	— 1	1	— 4	106
20	— 1	— 2	— 7	— 1	— 1	1	— 1	4	8	7	3	5	76
21	— 8	— 13	— 18	— 19	— 13	— 4	— 2	— 1	1	— 2	— 5	— 4	169
22	28	30	20	8	— 1	— 8	— 10	— 10	— 7	— 8	— 5	— 1	307
23	1	— 3	— 3	— 7	— 5	1	1	1	4	5	5	6	77
24	2	9	4	1	— 4	— 5	— 3	— 3	— 1	2	3	5	129
25	4	10	9	7	1	— 3	— 2	— 1	2	0	— 3	— 1	103
26	5	5	4	1	0	1	1	1	0	0	— 1	2	54
27	— 2	— 10	— 6	3	4	4	6	7	4	4	4	3	90
28	0	— 1	2	2	1	— 1	— 2	— 3	— 1	— 2	— 1	0	88
29	— 5	— 4	— 2	0	1	1	3	1	0	0	— 2	— 1	67
30	3	4	10	10	4	3	— 1	— 3	— 4	— 5	— 6	— 1	97
31	— 10	— 13	— 3	8	8	2	2	8	1	— 2	— 2	— 2	125
Hourly Amount.	184	222	225	181	145	107	97	102	89	77	95	78	3511

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER. 1	— 1	— 1	— 1	— 2	1	2	2	4	2	2	— 2	— 1	—
2	— 2	— 3	— 3	— 1	— 1	3	6	1	— 5	— 1	— 2	— 2	—
3	1	2	2	1	0	— 3	4	2	— 2	— 3	1	— 3	—
4	1	0	1	2	4	2	5	5	5	4	2	— 3	—
5	1	1	0	— 1	— 1	— 1	1	— 2	— 4	— 3	— 1	3	—
6	2	3	2	2	3	4	7	7	7	0	— 2	— 12	—
7	3	2	3	3	2	2	4	7	7	6	0	— 8	—
8	5	4	5	2	1	2	4	— 4	— 2	— 4	— 2	— 1	—
9	— 1	— 1	2	2	4	5	— 1	0	— 2	1	4	6	—
10	0	1	0	2	0	2	4	6	5	6	— 2	— 6	—
11	3	1	1	2	2	2	0	5	3	0	— 2	— 8	—
12	4	3	0	— 1	— 1	— 2	— 1	— 3	— 6	— 5	2	0	—
13	0	— 3	— 3	— 2	— 2	— 1	— 2	5	— 1	— 3	— 3	2	—
14	— 2	— 1	3	2	0	— 4	5	3	3	— 1	0	— 6	—
15	— 2	— 4	— 1	— 1	0	— 1	— 2	5	8	4	— 2	— 4	—
16	0	2	1	2	0	1	0	4	6	1	0	— 2	—
17	— 2	— 1	— 1	0	0	1	9	6	3	— 2	— 5	— 3	—
18	1	0	0	— 2	— 3	0	1	0	2	8	1	— 2	—
19	— 2	— 5	— 4	— 6	— 3	0	— 1	0	— 6	1	4	3	—
20	— 2	— 7	— 7	— 5	— 6	— 5	7	7	6	3	— 2	— 1	—
21	0	4	0	— 1	— 1	1	— 5	— 4	— 1	— 1	2	— 1	—
22	0	0	2	3	4	3	— 2	— 2	— 4	— 5	— 2	4	—
23	0	0	— 1	0	— 2	3	4	4	— 1	— 5	0	2	—
24	2	1	1	0	0	— 3	— 6	— 6	— 2	0	1	— 1	—
25	2	2	1	— 1	0	— 5	— 17	— 12	— 9	— 4	4	5	—
26	1	1	— 1	2	— 3	— 4	— 8	— 6	0	— 2	— 4	— 1	—
27	0	— 2	— 2	— 3	— 5	— 7	— 6	— 6	3	5	7	10	—
28	— 3	— 3	— 2	— 1	— 1	1	— 1	— 11	— 1	2	8	10	—
29	— 1	— 4	— 1	— 2	1	5	— 3	— 10	— 7	— 1	2	16	—
30	2	3	2	3	4	— 2	— 10	— 7	— 2	— 4	0	3	—
													—
Hourly Amount.	46	65	53	57	55	77	128	144	115	87	69	129	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
SEPTEMBER. 1	— 1	6	9	6	0	— 3	2	2	— 3	— 2	1	— 2	58
2	2	2	1	— 3	— 3	— 1	0	0	0	0	1	3	46
3	— 5	— 7	— 4	— 2	0	— 1	0	1	1	0	1	2	48
4	— 11	— 14	— 7	— 8	— 2	1	4	2	2	2	2	2	91
5	2	1	— 3	1	2	2	1	— 1	0	— 1	0	2	35
6	— 13	— 12	— 8	— 6	— 2	0	1	2	4	4	3	3	109
7	— 13	— 17	— 14	— 6	1	2	1	2	2	4	4	5	118
8	— 7	— 8	— 4	0	0	— 2	0	— 1	1	1	0	— 1	61
9	3	1	— 1	2	0	— 3	— 2	— 3	— 6	— 6	— 2	— 2	60
10	— 6	— 6	0	1	1	0	— 2	— 1	0	1	0	1	53
11	— 7	— 6	— 3	3	2	— 1	— 2	— 1	1	2	2	2	61
12	3	3	3	3	1	3	— 2	— 1	— 1	— 1	— 2	— 2	53
13	4	8	10	3	— 1	— 3	2	— 2	— 3	— 1	— 3	— 1	68
14	— 2	— 1	— 3	1	5	0	— 2	— 1	— 2	0	— 1	— 5	53
15	3	— 2	0	2	0	— 1	— 1	1	— 9	— 1	0	0	54
16	— 6	— 4	3	5	5	0	— 2	— 1	— 2	— 2	— 1	— 3	53
17	2	— 2	— 2	— 3	— 1	— 1	— 1	0	1	1	1	2	50
18	— 8	— 6	1	5	8	5	1	2	3	2	2	— 1	64
19	— 2	— 4	— 6	— 1	0	4	6	5	3	1	— 2	— 1	70
20	— 1	— 3	1	4	0	1	— 1	— 1	0	1	1	0	72
21	— 5	4	3	1	— 1	1	— 2	— 1	0	0	0	— 2	41
22	5	— 2	— 3	1	2	2	0	— 1	— 1	— 1	— 1	— 1	51
23	3	— 3	4	5	0	0	— 1	— 1	— 1	— 1	0	2	43
24	1	1	5	4	1	— 2	0	— 1	2	4	3	2	49
25	5	16	10	— 2	— 5	— 3	1	1	3	3	0	2	113
26	5	1	2	1	3	1	1	2	2	— 6	— 3	— 2	62
27	17	27	15	— 8	— 7	— 2	— 8	2	5	— 7	— 4	— 4	162
28	6	9	5	2	— 2	— 3	— 1	— 4	— 3	— 2	— 1	— 1	83
29	19	9	— 5	— 10	— 7	— 2	— 1	0	2	— 3	1	2	114
30	9	1	— 5	— 6	— 3	1	2	3	5	4	2	3	86
Hourly Amount.	176	186	140	105	65	51	50	46	68	64	44	61	2081

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

SEPTEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	— 4	1	3	0	3	4	0	2	— 2	— 2	— 4	—
2	— 4	— 6	5	3	8	1	2	4	6	— 1	3	6	—
3	— 2	0	0	1	— 8	— 11	— 3	— 5	— 4	— 2	— 5	2	—
4	1	— 5	— 5	— 5	— 3	— 2	— 3	0	1	1	2	— 2	—
5	— 2	— 4	— 4	— 6	— 7	— 8	— 6	1	3	5	3	— 1	—
6	0	— 5	— 6	— 6	— 5	— 4	— 6	6	— 3	3	2	2	—
7	— 4	— 7	— 10	— 9	— 6	— 7	— 4	— 5	— 3	1	7	2	—
8	0	— 3	1	4	— 1	4	4	3	9	4	11	— 6	—
9	2	— 1	— 2	0	— 2	0	6	6	9	0	3	3	—
10	1	— 2	6	— 5	— 3	— 1	3	8	5	4	3	— 4	—
11	— 1	— 3	— 5	— 4	— 5	— 4	— 2	— 3	— 2	— 3	2	2	—
12	— 1	— 5	— 4	— 5	— 5	— 3	— 9	— 11	7	10	5	0	—
13	3	2	15	6	13	14	5	— 9	— 10	— 10	— 9	2	—
14	7	19	2	2	3	4	1	4	0	5	5	7	—
15	0	— 1	— 5	— 2	— 1	— 2	3	— 12	— 21	1	6	11	—
16	— 8	— 8	7	6	6	3	5	1	— 2	4	2	— 1	—
17	7	1	— 2	— 4	— 4	— 4	— 4	— 4	0	3	2	1	—
18	2	— 3	— 4	4	9	— 1	— 4	— 1	3	— 3	— 4	2	—
19	— 6	— 2	— 5	— 1	— 5	0	— 2	7	5	— 5	— 6	— 2	—
20	— 1	3	3	— 7	1	4	4	11	2	2	— 5	— 12	—
21	— 1	— 6	1	7	5	7	5	8	8	9	3	0	—
22	— 7	— 6	— 6	— 6	— 6	1	2	3	2	0	— 2	— 2	—
23	— 1	— 4	— 4	— 1	1	0	1	3	1	— 2	— 7	2	—
24	— 5	5	— 3	— 2	— 2	— 2	— 6	1	2	0	— 1	— 1	—
25	— 2	— 3	— 3	2	1	— 3	— 2	1	3	2	— 1	9	—
26	— 4	— 1	— 1	— 4	0	0	— 1	— 3	7	1	— 2	— 3	—
27	5	12	13	14	13	15	11	9	— 18	— 12	— 6	0	—
28	21	15	12	6	7	3	5	— 1	— 3	— 2	— 4	— 6	—
29	10	15	14	13	— 1	4	— 8	— 6	— 3	— 7	2	3	—
30	— 9	10	— 3	— 4	— 6	— 3	— 3	— 3	— 4	— 7	— 8	3	—
Hourly Amount.	119	161	152	142	137	118	124	139	148	111	123	101	—

SEPTEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	0	3	— 2	6	6	1	— 4	8	— 8	— 3	6	— 2	76
3	3	3	4	4	1	1	— 3	— 2	— 4	— 1	5	— 2	82
3	10	4	3	1	2	4	6	3	0	1	— 1	— 4	82
4	— 1	2	0	1	3	1	3	1	0	— 2	— 1	— 4	49
5	3	8	11	4	2	0	1	1	2	1	2	0	85
6	6	11	12	8	4	— 1	— 1	1	— 3	— 3	— 1	— 2	101
7	2	11	21	14	0	— 1	— 3	1	0	3	4	0	125
8	— 20	— 1	1	— 7	— 17	— 7	0	1	1	2	3	4	114
9	— 7	— 11	— 7	— 5	4	4	2	— 1	— 4	2	— 7	— 1	89
10	— 4	0	3	4	3	0	— 1	1	1	0	4	2	68
11	7	8	7	4	4	0	2	2	2	0	1	— 1	74
12	6	0	8	7	13	— 1	— 10	— 3	— 12	11	1	6	143
13	7	— 1	— 17	— 18	— 12	— 3	— 6	— 6	4	— 5	— 9	— 3	189
14	— 1	— 6	5	— 4	— 15	— 5	4	5	8	6	6	9	133
15	6	— 1	2	3	8	4	6	— 8	4	— 6	— 11	— 12	136
16	— 2	— 4	— 16	— 14	— 10	3	2	— 3	2	5	3	11	128
17	7	5	2	2	0	1	1	0	1	2	3	— 3	63
18	4	13	11	1	— 2	— 3	4	4	— 1	— 2	— 4	— 5	94
19	— 3	— 13	— 1	9	19	5	— 7	— 9	1	— 3	— 2	0	118
20	— 11	6	12	2	— 6	— 6	— 7	— 1	— 1	— 4	— 6	— 3	120
21	— 5	— 7	— 7	2	4	2	6	9	5	1	— 5	— 7	120
22	— 4	0	— 6	— 9	— 1	2	7	7	6	— 1	0	— 4	90
23	5	5	3	— 4	— 3	1	3	— 1	— 4	— 2	1	— 2	61
24	3	7	11	7	1	0	4	0	— 2	0	2	1	68
25	18	— 5	— 6	6	12	14	1	— 13	12	— 8	— 5	— 5	137
26	5	6	8	1	— 7	— 4	— 9	— 1	— 8	0	— 2	1	79
27	— 24	— 29	— 38	— 19	— 13	— 15	— 7	3	10	30	12	18	346
28	— 10	— 10	18	— 16	— 13	4	— 7	7	7	9	14	14	214
29	— 11	— 13	— 8	4	8	8	7	9	4	— 1	— 18	— 14	191
30	10	8	4	6	4	3	2	— 2	— 4	— 7	— 1	0	114
Hourly Amount.	205	201	254	192	197	104	126	113	121	121	140	140	3489

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER. 1	— 3	— 1	— 4	— 5	— 5	— 7	— 11	— 7	— 7	1	7	11	—
2	0	2	0	— 1	— 2	2	— 1	— 6	— 4	1	— 5	— 9	—
3	— 3	— 2	— 3	— 2	2	4	— 4	3	2	— 11	8	4	—
4	— 4	— 1	— 2	— 2	— 3	— 4	— 8	— 6	— 6	— 1	4	9	—
5	3	4	4	4	5	6	2	— 10	— 10	— 6	— 9	— 4	—
6	— 4	— 1	— 1	— 1	— 1	— 3	— 5	— 8	2	10	8	7	—
7	— 1	0	2	0	— 3	2	— 4	— 1	1	— 1	— 2	4	—
8	— 1	— 1	— 2	— 5	— 1	— 7	— 4	0	3	3	1	9	—
9	3	6	6	3	4	2	— 1	— 7	— 8	1	— 4	— 4	—
10	— 2	0	— 8	— 2	— 5	— 7	— 8	— 6	— 2	— 2	— 1	6	—
11	1	4	4	2	2	— 1	— 2	— 1	— 2	— 4	— 2	0	—
12	1	4	3	1	0	— 1	— 3	2	— 7	— 9	0	4	—
13	— 7	— 7	— 14	— 10	— 14	— 14	— 8	10	19	21	12	6	—
14	— 3	— 10	2	5	5	6	3	1	2	— 3	— 7	— 8	—
15	4	5	7	4	2	6	— 1	— 2	2	— 9	— 9	— 2	—
16	3	1	— 5	— 6	— 2	— 2	— 2	1	— 1	— 3	— 1	0	—
17	— 6	— 4	— 1	— 1	— 2	— 2	— 3	5	5	1	4	— 1	—
18	— 2	1	3	1	— 3	3	7	1	— 6	— 3	0	5	—
19	0	— 2	0	— 3	— 1	— 1	3	0	6	10	12	8	—
20	2	1	— 1	2	1	— 1	— 2	— 10	— 4	— 4	7	10	—
21	0	1	— 1	— 4	— 3	— 2	1	— 1	— 4	— 5	— 5	— 2	—
22	5	1	0	0	0	— 4	— 1	4	3	— 3	— 6	— 2	—
23	4	5	3	1	— 1	— 4	— 3	— 3	— 2	— 4	1	2	—
24	6	1	6	5	4	8	11	0	— 7	0	4	0	—
25	2	6	4	2	3	12	8	2	— 3	0	2	— 2	—
26	4	3	3	6	1	4	6	8	1	4	— 4	— 5	—
27	1	— 3	— 3	— 3	— 2	— 3	— 3	— 5	4	— 3	— 8	— 14	—
28	— 11	— 5	— 4	— 2	— 2	0	3	13	15	13	— 1	— 9	—
29	— 4	— 3	— 3	— 2	6	3	18	17	11	4	— 12	— 13	—
30	7	— 5	6	7	8	10	12	3	0	3	6	— 11	—
Hourly Amount.	97	90	105	92	93	131	148	143	149	143	152	171	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
SEPTEMBER. 1	9	5	10	3	6	5	5	6	5	0	— 5	1	129
2	— 5	0	3	— 1	1	1	4	5	4	0	— 3	0	60
3	2	1	0	0	— 1	— 2	— 1	1	3	2	1	— 1	63
4	11	7	6	7	0	0	— 1	— 1	0	0	— 1	1	85
5	— 2	0	— 1	— 2	1	6	5	4	4	1	— 2	— 2	97
6	0	— 6	— 9	— 1	2	4	3	3	3	4	0	0	86
7	5	1	— 9	— 12	— 1	2	3	3	1	— 1	— 1	0	60
8	20	— 3	— 11	— 2	8	3	— 1	1	0	2	1	4	93
9	0	3	— 2	— 2	— 5	— 3	0	3	5	1	3	0	76
10	10	12	6	6	1	1	0	— 1	— 1	0	0	— 1	88
11	— 7	— 7	— 4	— 1	1	3	2	— 1	— 2	0	0	1	54
12	0	0	— 4	1	— 4	1	4	2	5	1	— 7	— 9	73
13	4	10	16	26	10	0	— 2	— 7	— 12	— 2	0	— 3	234
14	— 9	— 7	— 10	— 13	8	5	— 3	— 5	6	— 3	— 1	— 2	127
15	0	9	10	4	— 1	— 2	— 4	2	2	2	3	3	95
16	— 2	— 1	5	3	2	— 2	0	2	— 1	— 4	— 2	— 8	59
17	0	4	8	4	3	2	0	— 1	1	— 3	— 1	1	63
18	3	— 11	— 15	— 8	0	7	2	1	3	4	4	1	94
19	1	— 1	— 11	— 13	— 14	— 3	4	7	2	4	3	3	112
20	6	— 6	— 9	— 3	3	4	5	3	1	2	3	3	93
21	0	1	6	0	— 3	— 1	— 2	— 4	0	3	3	3	55
22	4	7	5	— 4	— 6	— 5	— 5	— 4	— 3	1	2	3	78
23	— 1	— 1	— 2	2	0	0	— 1	1	4	3	2	5	55
24	— 6	— 9	— 11	— 9	— 1	— 1	— 3	— 1	— 1	— 2	— 1	2	99
25	— 16	— 9	— 7	— 11	— 12	— 10	0	8	7	6	2	4	138
26	— 11	— 7	— 5	1	6	2	3	— 4	5	4	2	1	100
27	6	14	21	13	5	4	2	— 5	— 7	— 20	— 8	— 11	168
28	— 2	— 4	9	9	6	— 2	— 2	— 6	— 7	— 7	— 7	— 5	144
29	— 3	6	9	2	— 8	— 9	— 8	— 7	— 5	2	9	8	172
30	— 15	— 8	— 2	— 3	— 6	— 6	— 5	— 2	— 1	2	1	0	129
Hourly Amount.	160	160	226	166	125	96	80	101	101	86	78	86	2979

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER. 1	4	4	5	3	3	4	0	1	— 4	— 1	— 3	— 5	—
2	2	— 1	0	1	0	2	5	— 5	— 8	— 11	— 11	— 7	—
3	— 1	1	1	0	1	2	4	2	— 1	— 3	— 7	— 5	—
4	— 2	0	2	4	3	4	1	— 3	— 5	— 2	— 5	— 4	—
5	4	3	3	4	6	6	3	— 4	— 14	— 12	— 6	— 7	—
6	2	5	4	8	9	9	5	— 4	— 3	— 10	— 4	— 5	—
7	— 1	1	1	2	0	0	0	— 3	— 2	3	2	3	—
8	6	6	7	8	8	9	9	0	— 7	— 12	— 18	— 15	—
9	6	4	5	5	6	8	6	1	— 9	— 11	— 13	— 9	—
10	— 1	4	5	4	4	5	5	— 2	— 3	— 9	— 12	— 4	—
11	— 4	— 3	— 4	— 4	— 4	6	10	8	6	1	— 2	— 2	—
12	0	— 1	1	2	2	4	4	2	3	— 5	— 13	— 9	—
13	2	1	0	— 1	0	— 3	— 7	0	— 2	0	0	1	—
14	— 1	— 1	— 1	— 2	— 3	— 4	— 3	— 1	3	3	10	14	—
15	2	1	1	1	1	1	— 5	— 5	— 3	— 2	— 2	— 1	—
16	0	0	— 1	— 2	— 2	— 2	— 4	— 1	1	2	5	9	—
17	1	0	— 1	— 1	— 2	— 1	— 3	— 1	0	— 2	— 1	1	—
18	— 1	— 1	— 2	2	0	— 2	— 3	0	1	2	1	4	—
19	0	2	2	2	2	1	— 6	0	— 1	0	— 10	— 2	—
20	0	— 6	— 5	3	6	7	11	— 2	— 8	0	3	— 2	—
21	— 3	0	0	— 2	— 3	— 4	— 5	1	— 4	2	8	1	—
22	— 2	— 2	0	— 1	0	1	3	0	2	0	— 1	1	—
23	3	3	3	2	3	— 3	— 7	— 6	— 2	0	— 1	— 8	—
24	1	— 5	— 4	— 5	— 6	— 7	— 2	0	4	8	15	12	—
25	— 6	— 1	— 5	— 3	— 3	— 2	— 3	2	3	— 1	1	0	—
26	— 3	— 3	— 5	— 5	— 4	— 4	— 3	4	11	13	17	12	—
27	— 3	— 4	— 3	— 4	— 4	— 7	— 5	6	13	16	18	11	—
28	— 3	— 1	— 1	— 2	— 4	— 7	— 9	— 1	2	11	11	12	—
29	0	0	— 2	— 3	— 2	— 2	— 2	4	4	4	2	— 1	—
30	1	0	0	— 1	— 1	— 4	— 8	— 3	5	6	2	— 4	
31	— 1	— 2	— 7	— 13	— 17	— 15	1	9	8	7	14	8	—
Hourly Amount.	66	68	81	100	109	136	142	81	142	159	218	179	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
OCTOBER. 1	— 3	— 4	— 2	— 2	2	4	2	1	3	4	6	5	75
2	— 1	0	— 4	— 5	0	3	2	2	2	2	0	— 1	75
3	3	7	6	3	0	— 2	— 1	1	0	0	1	— 2	54
4	1	— 1	1	1	2	— 1	— 2	1	1	3	3	3	55
5	— 1	3	7	2	— 3	— 4	— 4	— 2	— 1	— 1	1	1	102
6	— 6	— 3	0	— 1	— 2	— 1	— 2	— 1	0	— 6	0	— 3	93
7	7	4	7	3	— 4	— 5	— 3	— 3	— 2	1	1	6	64
8	— 10	— 10	— 5	— 2	— 2	— 1	1	3	3	3	5	5	155
9	— 4	5	2	— 2	— 3	0	— 1	— 2	0	2	3	2	109
10	1	4	4	5	— 1	— 2	— 1	— 2	— 3	— 1	— 1	— 2	85
11	2	4	2	— 2	— 1	— 1	— 2	0	0	2	3	0	73
12	— 2	— 3	— 5	4	8	3	4	— 6	— 2	4	— 1	2	90
13	0	2	3	— 3	— 1	0	2	3	— 2	1	1	— 1	36
14	10	0	— 1	0	— 2	— 3	— 2	— 2	— 2	— 5	— 2	2	77
15	1	0	— 3	— 1	1	2	1	1	— 1	0	0	0	36
16	4	3	— 2	— 4	— 1	0	0	0	2	— 1	— 2	— 1	49
17	0	2	5	5	— 1	— 1	— 1	0	0	1	0	— 1	31
18	3	2	3	— 3	— 3	— 2	0	— 2	— 1	— 4	— 3	— 1	46
19	— 2	3	3	0	— 3	0	1	1	4	— 2	— 1	3	51
20	— 4	— 2	3	4	— 1	4	2	4	4	— 2	— 3	— 1	87
21	5	— 2	— 6	— 2	2	2	3	2	— 6	— 2	— 1	— 3	69
22	3	1	4	1	— 2	— 1	— 2	1	0	0	1	5	34
23	— 11	— 7	— 2	5	7	9	3	1	2	4	— 1	2	95
24	9	5	1	— 1	— 4	— 4	— 1	0	— 1	0	— 1	— 1	97
25	2	— 2	— 5	— 3	1	2	0	0	2	— 1	— 3	— 5	56
26	0	— 8	— 6	— 3	0	— 2	— 1	— 3	— 3	— 4	— 6	— 2	124
27	3	— 3	— 7	— 9	— 2	0	— 1	1	1	3	0	— 2	126
28	3	— 2	— 5	— 3	1	0	0	0	— 4	— 3	— 3	0	88
29	— 4	— 5	— 2	1	2	2	3	3	4	2	0	— 1	55
30	— 3	2	— 1	3	4	3	0	1	2	2	1	1	58
31	— 5	6	4	3	1	— 5	— 6	— 6	— 2	— 5	— 6	— 4	155
Hourly Amount.	113	105	111	86	67	69	54	55	60	71	60	68	2400

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER. 1	2	2	— 1	1	— 1	1	— 2	— 1	— 5	— 4	4	4	—
2	2	6	10	0	0	5	— 2	2	— 4	— 2	0	3	—
3	— 1	— 1	— 2	— 3	— 1	0	— 1	2	4	1	2	4	—
4	— 2	— 2	— 6	— 5	— 6	— 4	— 2	— 3	— 7	— 8	0	7	—
5	— 3	— 4	— 5	— 8	— 4	— 3	0	2	0	— 4	8	16	—
6	— 2	— 7	— 1	— 2	— 6	— 1	— 7	— 1	— 9	— 8	— 1	1	—
7	0	0	— 3	— 1	1	— 1	— 4	1	5	— 2	4	— 1	—
8	1	1	— 3	— 2	— 2	— 3	0	— 1	— 3	— 4	0	9	—
9	— 4	— 4	0	— 2	1	— 3	4	2	6	3	4	6	—
10	— 4	— 5	— 6	— 6	— 6	— 2	— 1	3	— 4	— 3	6	8	—
11	5	3	3	2	0	2	3	— 5	— 5	— 1	4	5	—
12	4	— 7	6	3	3	8	10	0	— 10	— 10	5	— 1	—
13	2	0	2	8	4	8	3	2	7	1	2	1	—
14	2	2	1	1	— 1	— 4	— 3	— 5	— 3	6	4	4	—
15	2	3	— 2	— 1	— 4	— 1	— 4	3	2	3	5	— 1	—
16	5	3	0	— 3	— 4	0	2	1	4	5	0	— 4	—
17	— 2	— 1	— 3	— 2	0	0	— 1	— 3	— 1	5	1	3	—
18	— 5	— 3	— 2	— 2	— 2	— 3	— 1	— 3	— 3	1	1	0	—
19	3	2	— 8	2	— 4	— 6	— 8	— 11	— 5	— 4	— 1	— 3	—
20	— 4	13	— 1	1	9	— 12	— 12	— 14	— 13	— 18	— 7	— 6	—
21	9	13	9	2	3	2	23	3	9	5	— 22	— 14	—
22	1	0	7	3	6	4	— 4	— 1	2	5	0	2	—
23	5	— 1	— 2	— 2	— 1	4	5	6	9	6	— 1	— 12	—
24	— 4	3	1	8	7	— 5	1	3	4	6	3	— 1	—
25	— 1	— 6	— 5	— 4	— 6	1	1	— 4	— 5	— 7	3	5	—
26	— 2	0	— 2	— 6	— 5	— 3	1	6	0	4	5	— 2	—
27	— 5	— 2	— 3	0	0	3	1	5	8	6	0	— 6	—
28	3	0	— 4	— 2	— 2	— 1	— 3	— 3	3	2	2	— 5	—
29	1	0	0	— 1	— 1	0	3	2	1	— 2	— 3	— 2	—
30	0	1	— 3	— 2	— 6	— 4	— 6	— 8	— 5	— 2	— 4	— 6	—
31	— 4	— 4	24	25	28	18	3	13	15	16	— 32	— 23	—
Hourly Amount.	90	99	125	110	124	112	121	119	161	154	134	165	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
OCTOBER. 1	6	1	— 1	— 7	— 8	— 8	— 6	— 4	— 1	0	0	3	73
2	6	6	5	6	0	0	3	1	— 3	— 8	— 7	— 5	86
3	4	— 1	— 3	1	1	2	3	2	1	— 2	— 3	— 6	51
4	10	10	7	6	4	8	3	1	3	— 2	— 2	— 5	113
5	18	3	— 4	— 1	9	— 4	— 14	5	6	12	5	— 1	139
6	— 1	— 2	— 5	— 1	— 4	— 6	4	3	0	15	— 5	3	95
7	4	5	4	2	— 2	— 4	— 4	— 3	0	6	4	0	61
8	6	— 1	— 4	— 5	1	2	5	2	3	1	— 3	— 4	66
9	3	— 2	— 4	— 5	0	2	7	3	2	5	6	— 1	79
10	1	— 1	— 2	3	0	— 1	— 7	— 8	0	3	2	— 1	83
11	2	— 3	— 5	— 2	1	— 1	4	1	4	6	2	5	74
12	— 13	— 4	6	— 3	— 10	— 10	— 7	3	— 14.	— 6	6	0	149
13	2	— 2	— 17	— 12	— 2	5	6	— 3	12	— 7	— 10	12	130
14	0	1	0	0	— 9	— 4	1	— 1	— 3	5	5	— 2	67
15	— 3	— 2	— 5	— 2	— 3	1	0	0	4	— 1	— 3	1	56
16	0	2	4	5	2	2	— 3	— 6	— 8	— 5	1	0	69
17	2	— 1	2	9	10	10	10	5	— 4	— 9	— 8	— 6	98
18	1	4	6	3	3	0	9	— 2	7	4	2	3	70
19	— 4	— 6	19	16	19	24	19	13	— 17	6	5	7	212
20	4	9	— 11	— 21	— 4	1	4	— 3	— 1	— 1	0	— 5	174
21	— 13	— 10	6	4	— 8	— 12	— 19	9	16	1	5	6	223
22	1	— 2	— 8	— 13	— 6	— 2	3	— 4	4	0	— 3	10	91
23	— 9	5	6	3	0	— 12	— 8	— 3	— 7	— 3	19	1	130
24	— 2	— 4	— 3	1	1	5	1	1	0	2	0	3	69
25	— 2	— 7	— 1	0	1	6	1	0	— 6	1	— 7	— 9	89
26	1	7	6	8	4	3	4	6	2	2	2	— 5	86
27	— 6	— 6	— 6	1	— 4	— 5	2	3	2	1	4	2	81
28	0	3	3	5	3	0	0	— 5	6	— 4	— 2	— 4	65
29	0	4	10	5	— 3	— 7	— 3	0	1	— 1	— 2	1	53
30	— 1	8	5	5	3	0	1	— 4	— 4	— 9	— 5	— 7	99
31	— 17	— 14	— 9	— 6	— 5	7	3	5	0	0	0	4	275
Hourly Amount.	142	136	177	161	130	154	164	109	141	128	128	122	3206

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER. 1	— 1	0	3	3	3	3	0	— 2	— 5	— 8	— 2	— 1	—
2	— 3	— 4	— 6	1	1	— 2	3	2	4	0	— 4	— 6	—
3	— 2	— 3	— 1	— 1	— 1	— 4	— 3	— 2	— 4	0	5	1	—
4	1	1	2	4	5	2	1	— 2	4	7	8	— 2	—
5	0	— 2	— 2	1	— 1	— 3	— 7	6	4	— 4	— 3	— 5	—
6	6	6	2	1	4	3	3	— 6	— 7	— 8	— 4	2	—
7	2	0	3	1	1	0	0	— 1	1	— 5	— 1	1	—
8	— 1	— 1	0	0	0	— 1	4	7	8	12	0	— 8	—
9	4	3	— 1	— 1	— 4	— 4	0	3	0	0	— 3	— 9	—
10	2	2	2	— 1	0	— 3	0	0	6	9	2	— 8	—
11	— 2	— 1	— 1	— 1	— 1	— 5	0	11	11	9	4	— 7	—
12	1	7	0	2	2	— 6	— 6	— 4	3	11	1	— 5	—
13	1	2	1	— 2	— 1	— 1	— 1	— 5	— 5	— 5	— 5	— 3	—
14	0	2	5	6	7	7	— 3	— 8	— 9	— 16	— 10	— 2	—
15	— 3	— 3	1	3	6	7	9	2	2	— 3	— 2	1	—
16	— 4	— 2	— 1	0	1	— 3	— 3	— 5	— 8	— 8	— 1	5	—
17	— 5	— 3	— 2	— 3	— 1	1	6	4	3	5	2	— 3	—
18	1	0	— 2	— 1	— 2	0	0	2	4	2	— 3	— 6	—
19	— 1	— 2	3	0	2	2	5	6	5	5	— 1	— 2	—
20	— 3	— 9	0	— 3	— 9	3	13	28	28	25	7	5	—
21	— 8	— 10	— 9	— 4	— 3	2	— 6	5	4	7	14	9	—
22	0	1	— 3	— 1	— 2	— 3	5	0	0	— 1	1	1	—
23	— 4	0	— 1	— 1	— 1	1	0	— 4	— 6	4	3	4	—
24	— 1	— 2	0	— 4	— 2	3	— 1	6	1	— 3	— 7	1	—
25	6	6	6	3	1	— 1	2	3	3	4	0	0	—
26	4	3	4	5	3	— 2	— 8	— 18	— 12	— 6	— 3	8	—
27	3	0	— 2	— 5	— 5	— 3	— 6	— 11	— 11	— 8	4	13	—
28	0	2	2	1	0	2	0	— 1	— 7	— 9	— 2	6	—
29	— 1	1	2	4	3	2	— 3	— 5	0	5	7	5	—
30	1	2	3	3	3	4	— 3	— 12	— 6	— 3	— 1	5	—
31	1	1	— 9	— 13	— 10	— 5	— 4	0	— 6	— 14	3	6	—
Hourly Amount.	72	81	79	79	85	88	105	171	177	206	113	140	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
OCTOBER. 1	— 1	6	4	1	1	1	3	1	— 3	— 3	— 3	— 5	63
2	— 4	2	6	7	4	1	0	1	3	2	2	— 2	70
3	— 6	— 2	3	4	2	2	1	0	— 1	0	1	1	50
4	— 11	— 10	— 6	— 5	0	— 2	— 1	1	— 1	1	1	3	81
5	— 8	0	8	0	— 3	2	13	0	— 1	— 4	— 1	4	82
6	6	6	0	— 4	— 1	2	— 1	— 2	0	— 6	5	1	86
7	— 2	— 3	— 4	2	6	4	3	— 1	— 2	0	— 4	— 2	49
8	— 6	— 4	— 3	2	— 2	— 5	— 5	— 2	— 3	0	4	5	83
9	— 2	— 1	4	6	1	— 1	— 3	0	— 2	— 1	— 3	0	56
10	— 6	0	6	1	1	— 1	1	2	— 2	— 5	— 3	— 2	65
11	— 7	— 4	— 2	— 1	— 3	— 1	— 2	— 1	— 2	— 2	2	1	81
12	3	2	— 8	— 8	1	7	3	2	7	4	— 5	1	99
13	1	9	15	10	— 1	— 6	— 5	2	— 5	3	8	— 4	101
14	7	9	6	6	11	4	— 2	— 2	— 4	— 8	— 7	— 4	145
15	— 1	— 1	— 3	— 5	— 3	— 3	— 2	0	— 1	0	1	— 3	65
16	5	9	10	5	4	3	3	4	4	0	— 5	— 3	96
17	— 2	— 4	— 7	— 8	— 6	— 4	— 4	— 1	5	9	5	2	95
18	— 5	— 1	4	5	3	1	4	0	— 2	— 1	— 3	— 3	55
19	— 6	— 3	— 10	— 10	— 11	— 14	— 8	— 6	6	— 1	— 6	— 7	122
20	— 2	— 12	1	9	— 4	— 10	— 7	0	— 1	6	1	1	187
21	5	— 1	— 8	— 9	— 3	5	9	3	— 8	0	— 1	— 2	135
22	— 1	— 1	5	8	3	— 2	— 2	2	— 1	0	1	— 6	50
23	7	— 5	— 5	— 7	— 3	6	9	4	6	3	— 8	0	92
24	— 2	— 2	2	— 1	0	— 2	— 1	— 1	— 1	— 1	0	1	45
25	2	2	— 7	— 7	— 10	— 8	— 2	0	5	1	8	10	97
26	11	4	— 1	— 5	— 1	0	— 1	— 1	3	1	5	5	114
27	17	13	5	4	0	3	— 2	— 4	— 4	— 2	— 3	2	130
28	8	1	— 5	— 2	— 2	2	0	3	— 4	2	1	3	65
29	— 5	— 10	— 11	— 6	4	6	1	0	— 1	2	3	3	90
30	8	4	3	4	3	1	— 1	— 1	— 2	1	0	2	76
31	7	5	3	5	6	— 4	0	— 2	— 3	— 4	— 4	— 3	118
Hourly Amount.	164	136	165	157	103	113	99	49	93	73	104	91	2743

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

NOVEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 2	— 4	0	16	— 3	13	11	1	0	— 4	2	— 11	—
2	— 4	— 4	— 3	— 1	— 1	1	3	5	5	2	1	1	—
3	1	3	3	2	1	0	— 5	— 4	— 3	— 1	0	2	—
4	3	3	3	3	3	— 2	— 2	— 6	— 4	— 1	5	8	—
5	0	2	4	5	4	2	2	— 6	— 8	— 5	6	6	—
6	1	1	2	0	2	3	— 2	4	0	— 1	1	8	—
7	5	5	5	2	2	12	8	6	— 4	— 12	— 17	— 1	—
8	— 1	2	0	— 1	— 2	1	3	4	3	— 4	— 9	— 8	—
9	— 4	— 2	— 3	— 5	— 5	2	1	2	3	— 1	3	3	—
10	2	0	1	1	2	— 8	0	1	3	0	— 5	— 9	—
11	2	2	1	— 1	3	0	— 1	1	— 2	4	— 9	— 8	—
12	— 1	— 1	— 1	— 1	— 7	— 8	— 5	— 1	1	6	6	4	—
13	0	— 1	0	0	— 2	— 1	— 1	5	5	— 1	— 4	— 2	—
14	2	0	1	0	2	0	— 1	— 5	— 4	— 3	1	— 3	—
15	— 2	— 2	— 1	— 2	— 1	0	0	3	4	3	1	0	—
16	0	2	1	1	2	— 9	— 9	10	4	2	— 3	— 6	—
17	— 2	— 9	— 14	— 12	— 9	— 15	— 1	4	21	13	18	9	—
18	— 6	— 3	— 5	— 9	— 1	— 1	— 1	4	13	9	4	— 1	—
19	1	3	5	1	2	2	— 3	— 8	— 7	3	5	14	—
20	3	6	9	7	3	— 5	— 6	— 9	1	4	7	8	—
21	— 1	— 1	— 1	— 1	0	— 1	— 5	— 7	— 2	4	12	11	—
22	2	2	2	1	3	6	— 2	— 11	— 11	— 6	0	1	—
23	1	1	2	2	4	5	3	— 4	— 10	— 6	— 7	— 7	—
24	3	2	3	3	4	11	3	— 4	— 11	— 10	— 3	— 5	—
25	0	— 3	— 2	— 3	2	0	4	3	1	2	— 3	— 3	—
26	— 1	— 4	— 3	— 4	— 3	— 3	11	7	0	— 2	— 6	— 7	—
27	— 5	— 7	— 10	— 9	— 10	— 5	7	12	10	9	4	6	—
28	— 6	— 2	— 3	0	1	1	— 4	3	2	2	— 5	— 2	—
29	7	5	4	8	7	5	0	— 7	— 8	— 8	— 6	— 7	—
30	3	4	4	1	2	— 2	— 4	— 6	— 4	0	3	— 2	—
Hourly Amount.	71	86	96	102	93	124	108	153	154	128	156	163	—

NOVEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 5	— 5	0	6	5	— 1	1	— 5	— 4	— 3	— 3	— 2	107
2	0	— 1	— 3	— 3	0	3	0	1	1	1	1	2	47
3	2	0	— 3	— 5	— 4	— 2	— 1	0	2	3	3	2	52
4	7	3	0	— 4	— 4	— 2	— 2	— 1	— 1	— 1	— 8	2	78
5	5	— 1	— 4	0	1	0	— 1	— 4	— 4	— 2	0	0	72
6	8	6	— 4	— 5	— 6	0	0	— 3	0	— 6	— 6	3	72
7	0	— 1	— 6	— 5	— 2	1	5	5	4	0	— 1	— 1	110
8	— 3	— 2	0	2	3	5	6	4	4	2	1	— 8	78
9	— 1	— 3	— 3	1	2	1	— 2	— 1	— 2	0	2	2	54
10	— 4	0	1	4	2	2	2	3	4	3	2	1	60
11	— 10	— 2	12	4	3	6	7	3	2	1	0	0	84
12	— 2	— 4	— 4	— 2	0	— 3	0	0	— 1	0	2	0	60
13	1	6	4	4	1	0	— 1	— 1	— 2	0	2	2	46
14	0	2	4	3	1	— 4	— 1	— 1	0	— 1	— 2	— 3	44
15	3	4	2	1	— 1	0	1	1	— 1	0	1	0	34
16	— 11	— 6	2	6	10	5	2	1	3	2	3	1	101
17	4	— 3	9	10	— 1	— 9	— 4	— 6	— 8	— 8	— 3	— 3	195
18	0	— 9	— 3	1	4	4	— 9	1	3	3	1	1	96
19	9	2	— 3	— 4	— 7	— 3	— 9	4	0	— 2	1	1	99
20	5	1	— 3	— 8	— 9	— 3	1	1	— 1	0	3	5	108
21	10	5	— 3	— 8	— 5	— 3	— 1	1	0	1	— 1	1	85
22	— 5	4	4	0	1	— 2	3	0	0	1	1	0	68
23	— 3	5	5	3	1	— 3	1	1	0	1	2	2	79
24	— 5	— 1	— 1	6	4	0	2	2	1	0	1	0	85
25	5	7	4	3	— 2	— 1	0	— 1	— 1	— 1	0	— 3	54
26	— 3	2	3	3	6	3	1	0	1	— 1	0	— 2	76
27	0	9	— 1	— 6	0	— 1	— 2	— 2	— 2	0	— 1	2	120
28	— 4	— 2	3	4	4	4	0	— 1	— 2	3	3	3	64
29	— 5	— 9	— 7	— 3	4	4	3	0	1	2	2	2	114
30	1	— 3	— 3	— 1	— 1	0	1	2	3	1	1	0	52
Hourly Amount.	121	108	104	115	94	75	69	56	58	49	57	54	2394

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER. 1	7	8	7	22	14	4	— 10	— 11	— 18	— 3	— 10	— 10	—
2	7	7	— 4	— 1	— 1	— 2	— 5	2	5	— 2	— 3	— 2	—
3	— 5	— 10	— 13	— 10	— 8	— 5	— 5	0	5	1	— 1	1	—
4	— 8	— 5	1	— 7	— 6	— 7	— 3	6	11	11	7	4	—
5	— 8	— 15	— 4	0	0	12	— 6	1	— 2	1	— 4	— 7	—
6	10	6	7	4	2	2	— 3	3	— 1	— 6	0	— 1	—
7	— 2	1	2	— 1	6	— 1	2	— 7	— 7	0	3	2	—
8	— 5	— 1	0	— 5	— 3	— 8	— 6	— 2	— 1	6	6	8	—
9	— 12	— 5	— 8	— 9	— 7	— 11	— 8	2	1	4	5	6	—
10	— 1	— 2	1	— 4	— 3	— 6	— 1	1	— 1	2	1	4	—
11	— 4	— 5	— 8	— 6	— 6	1	2	— 2	0	— 2	17	8	—
12	7	6	2	— 1	16	16	11	4	— 10	— 13	— 8	— 7	—
13	— 3	— 3	— 5	— 3	0	— 1	1	0	6	5	2	0	—
14	— 2	— 4	— 2	— 2	0	— 2	— 4	— 3	2	4	3	4	—
15	— 6	— 5	— 7	— 8	— 7	— 6	— 1	2	5	6	6	4	—
16	4	9	11	8	13	26	10	— 15	— 9	— 7	— 9	— 14	—
17	1	0	31	16	5	11	15	16	1	1	— 14	— 19	—
18	26	16	14	29	17	4	11	1	— 19	— 15	— 10	— 7	—
19	2	10	1	— 5	— 7	— 5	— 2	2	6	2	3	— 2	—
20	— 8	— 1	— 2	— 6	— 3	— 4	2	4	3	4	4	4	—
21	— 5	— 2	— 5	— 10	— 4	— 5	3	9	8	3	2	4	—
22	— 2	— 4	— 5	— 5	— 5	— 2	— 1	3	4	— 1	— 1	1	—
23	— 3	— 2	— 4	— 2	0	1	2	6	5	1	— 3	1	—
24	— 5	— 5	— 6	— 6	— 6	— 6	— 6	— 4	— 2	0	3	13	—
25	— 3	— 3	— 3	— 5	— 4	— 4	— 6	— 6	— 2	6	9	8	—
26	1	5	7	3	— 9	— 20	— 8	— 6	— 1	— 2	— 2	0	—
27	9	5	8	7	8	13	— 2	— 10	0	1	0	0	—
28	10	— 2	— 10	9	2	— 6	4	— 6	— 1	— 4	5	3	—
29	9	1	1	— 2	— 3	2	3	— 1	1	— 4	— 3	— 4	—
30	— 2	— 4	— 7	— 6	— 1	4	6	7	10	1	— 4	— 2	—
Hourly Amount.	177	152	186	202	166	197	149	142	147	118	148	150	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
NOVEMBER. 1	— 14	— 14	— 12	4	9	8	— 5	— 5	3	— 6	2	5	211
2	4	3	2	8	10	3	0	0	1	12	— 4	— 8	96
3	8	10	9	4	2	2	3	4	2	— 2	— 5	— 3	118
4	2	2	1	0	4	11	8	8	0	— 7	4	— 4	127
5	— 3	— 4	— 3	— 16	— 5	7	4	2	— 8	— 10	10	8	140
6	— 4	— 4	— 10	— 1	— 3	— 6	— 6	8	3	16	18	— 8	132
7	6	1	3	7	0	— 4	— 8	— 8	— 13	2	0	— 8	94
8	13	8	5	— 3	5	9	8	5	3	— 5	— 13	— 8	136
9	9	7	7	4	3	2	2	2	5	— 1	— 2	— 2	124
10	3	4	8	9	8	5	1	2	1	— 2	0	0	70
11	31	2	— 26	— 21	— 18	— 1	— 15	— 7	— 3	1	2	4	192
12	— 5	1	4	2	3	2	— 2	— 1	0	— 2	— 3	— 3	129
13	— 3	— 1	3	4	4	1	1	1	0	— 2	— 4	— 5	58
14	2	5	6	6	5	3	1	— 2	— 3	— 9	— 10	— 8	92
15	1	— 1	8	8	6	3	— 1	— 2	1	0	— 5	5	104
16	— 14	— 14	— 5	— 3	— 6	— 4	— 1	6	7	— 7	1	— 4	207
17	— 12	7	— 5	— 44	— 40	— 21	— 9	— 12	— 5	8	8	18	319
18	— 23	— 4	— 3	— 2	— 1	— 11	14	4	3	0	14	4	252
19	— 3	— 1	1	0	7	2	7	— 3	— 5	4	— 13	— 8	101
20	— 3	— 4	— 4	0	2	2	2	0	— 3	1	— 1	6	73
21	1	0	6	9	7	1	— 5	— 3	— 2	— 4	3	1	102
22	2	0	5	9	3	1	— 4	— 3	— 6	— 5	— 1	1	74
23	— 2	— 1	— 2	1	3	1	0	3	2	1	— 4	— 4	54
24	9	6	8	6	3	0	0	0	1	2	— 2	— 2	101
25	4	2	2	1	1	3	2	0	3	3	7	11	98
26	— 1	— 2	— 3	— 6	— 8	— 8	— 7	0	0	2	4	7	112
27	— 1	— 6	— 10	1	4	— 2	4	2	2	1	— 4	2	102
28	— 3	2	2	9	— 6	— 9	— 2	— 7	10	— 2	— 1	3	118
29	1	1	9	5	0	1	0	— 4	— 3	— 5	— 1	— 4	68
30	— 6	— 8	— 3	— 1	1	1	3	6	4	5	3	4	99
Hourly Amount.	193	125	175	194	177	134	125	110	102	127	149	158	3703

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0,00001 C. G. S.

NOVEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 6	— 8	— 4	— 12	— 1	0	18	26	24	15	10	8	—
2	— 1	— 1	6	4	3	9	11	— 3	— 4	5	0	8	—
3	4	5	5	3	3	— 1	— 5	— 10	— 10	— 5	2	2	—
4	0	— 2	— 7	— 5	— 3	— 3	— 8	— 5	— 10	— 6	0	2	—
5	5	6	— 3	— 6	— 5	— 7	— 1	— 6	— 2	— 3	— 1	3	—
6	— 6	— 6	— 4	— 4	— 2	— 2	2	9	8	5	0	5	—
7	3	1	0	0	— 2	— 1	4	8	13	8	— 3	— 9	—
8	3	— 1	— 3	— 1	— 2	— 2	1	— 2	— 2	— 2	1	1	—
9	10	3	4	5	3	1	— 1	— 4	— 1	— 3	— 11	— 2	—
10	3	3	2	4	6	5	— 1	— 10	— 5	— 2	4	5	—
11	8	8	12	7	6	2	— 7	— 25	— 27	— 10	— 5	2	—
12	— 5	— 6	— 2	— 1	— 7	— 6	— 3	— 2	7	5	— 3	— 3	—
13	— 5	— 6	— 3	— 5	— 7	— 6	— 6	14	10	9	8	5	—
14	0	0	1	3	2	5	6	5	4	0	0	1	—
15	1	0	0	1	1	0	0	— 3	— 4	— 2	— 5	— 4	—
16	— 1	— 3	— 5	— 4	— 5	— 10	— 5	4	— 1	— 6	— 1	6	—
17	0	4	— 15	— 3	0	— 5	— 12	— 18	— 12	— 13	0	7	—
18	— 20	— 10	— 8	— 6	— 9	2	— 3	— 2	8	9	10	8	—
19	2	— 5	0	4	5	4	4	0	— 6	— 8	— 6	— 6	—
20	3	— 4	— 4	0	0	3	3	7	7	0	— 8	— 7	—
21	3	1	0	1	— 1	1	0	1	2	1	— 4	— 6	—
22	1	1	0	— 1	— 3	— 5	2	2	3	3	1	— 6	—
23	0	1	0	1	— 1	— 1	0	1	1	2	6	— 4	—
24	4	3	3	4	3	0	2	— 2	— 1	— 3	1	— 2	—
25	2	1	— 1	— 1	— 1	— 2	2	2	0	— 1	— 1	— 4	—
26	6	7	7	11	19	21	11	— 8	— 2	5	3	— 3	—
27	— 1	1	2	3	3	— 6	— 1	0	— 1	1	3	— 3	—
28	— 6	2	4	— 7	— 3	— 2	— 10	5	2	1	1	2	—
29	— 7	— 2	3	3	3	2	— 3	12	8	5	2	— 6	—
30	1	4	4	4	1	1	— 1	— 2	— 8	— 4	— 2	— 4	—
Hourly Amount.	117	105	112	114	110	115	133	198	193	143	102	134	—

NOVEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	3	— 1	— 11	— 22	— 15	— 10	— 3	2	— 3	3	— 2	— 4	211
2	3	0	— 7	— 12	— 11	— 3	0	0	2	— 4	3	4	104
3	— 2	0	— 2	1	— 2	1	3	0	1	2	1	— 1	71
4	6	12	14	11	4	— 6	— 4	— 2	2	7	0	2	121
5	5	3	2	7	0	— 5	0	3	8	5	— 5	— 3	94
6	1	0	2	0	2	0	0	— 7	— 3	— 10	— 7	6	91
7	— 8	— 8	— 4	— 6	0	0	2	3	5	— 1	— 1	3	93
8	— 4	— 2	— 1	7	— 1	— 4	— 5	— 3	1	4	11	9	73
9	1	1	0	— 2	— 2	— 2	— 2	— 1	— 2	0	2	1	64
10	— 1	— 6	— 5	— 4	— 3	— 3	— 1	— 2	— 2	2	3	4	86
11	— 2	17	33	21	12	0	4	— 1	— 4	— 5	— 5	— 5	228
12	3	1	— 1	— 2	0	0	0	— 2	— 2	— 4	— 5	— 5	75
13	4	1	1	0	0	2	0	— 2	— 1	0	2	1	98
14	— 1	— 6	— 7	— 10	— 3	— 1	0	1	3	5	4	2	70
15	— 1	1	— 1	1	0	2	2	1	1	1	4	— 1	37
16	10	9	3	— 1	3	5	2	— 2	— 3	6	3	5	103
17	9	9	11	37	32	17	2	4	0	— 8	— 10	— 8	236
18	4	— 9	— 7	— 8	— 4	5	— 2	0	2	2	— 6	1	145
19	5	5	2	1	— 4	— 2	— 2	0	1	— 2	6	2	82
20	— 3	0	4	2	0	— 3	— 1	2	2	0	0	— 5	68
21	— 5	— 3	— 1	0	— 1	2	4	2	2	2	— 1	— 1	45
22	— 3	— 2	3	0	1	1	3	3	5	3	0	— 1	53
23	— 8	— 5	— 4	2	— 1	— 1	— 1	— 1	0	1	4	4	50
24	— 3	— 5	— 10	— 11	2	2	1	1	1	— 1	3	2	70
25	— 6	3	5	5	2	— 3	— 2	— 1	— 3	— 3	— 1	— 2	54
26	— 5	— 8	— 13	— 11	— 7	— 1	1	— 4	— 3	— 2	— 1	— 2	161
27	— 4	— 2	4	— 4	— 4	3	— 1	0	— 2	— 2	1	— 3	55
28	4	0	1	4	8	8	2	2	— 6	— 2	2	— 1	85
29	— 5	— 11	— 9	— 8	— 7	— 3	0	3	3	3	2	5	116
30	1	7	4	1	0	0	1	— 2	— 1	— 3	— 2	— 6	64
Hourly Amount.	120	137	172	201	131	95	51	57	74	93	97	99	2903

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0.'1.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER. 1	3	— 1	2	1	0	— 8	— 9	— 2	3	6	10	5	—
2	0	0	1	1	1	— 3	— 5	— 8	— 3	7	14	20	—
3	2	1	0	0	— 1	— 7	— 11	— 7	2	8	12	12	—
4	1	— 1	0	2	2	10	3	— 8	— 11	— 4	0	1	—
5	3	1	3	1	0	0	— 9	— 7	— 1	3	7	6	—
6	7	3	6	6	4	— 2	— 4	— 9	— 5	— 5	— 2	— 5	—
7	4	5	5	3	4	— 4	— 1	2	— 1	— 4	— 4	— 7	—
8	4	1	2	4	3	8	4	— 1	— 5	— 7	— 5	— 4	—
9	— 14	2	3	4	5	— 2	— 4	— 5	— 4	— 2	— 2	— 5	—
10	0	— 1	— 1	0	2	0	2	1	— 1	— 3	— 3	— 2	—
11	1	1	2	2	— 1	— 4	— 3	— 2	— 4	— 3	3	0	—
12	0	2	1	1	2	— 5	— 9	— 9	— 2	6	3	— 1	—
13	0	0	0	— 5	— 4	0	— 6	0	5	11	10	7	—
14	3	0	— 1	— 1	— 1	0	— 3	3	— 1	3	7	7	—
15	— 1	— 1	— 3	— 12	— 8	0	4	7	13	8	8	10	—
16	— 7	— 3	— 3	— 3	— 1	3	2	1	6	6	7	8	—
17	— 2	— 2	— 3	3	2	1	2	0	0	1	2	0	—
18	1	2	3	2	2	2	2	— 4	— 5	— 7	— 5	— 5	—
19	— 2	0	— 1	0	— 3	— 3	— 1	4	2	— 3	1	4	—
20	3	1	2	0	2	— 1	3	1	— 1	— 2	— 5	— 4	—
21	— 2	— 3	— 1	— 2	0	3	6	4	— 1	— 4	— 4	2	—
22	3	2	3	4	6	12	9	— 5	— 18	— 19	— 8	— 1	—
23	0	— 2	— 3	— 4	— 4	1	5	12	5	— 2	— 1	1	—
24	— 1	— 2	— 1	— 1	0	2	15	16	— 4	— 7	— 20	— 1	—
25	0	— 4	— 7	— 5	— 5	— 4	2	7	4	2	— 3	— 7	—
26	6	4	3	3	2	1	1	— 11	3	1	2	— 16	—
27	— 3	1	0	6	1	3	4	7	2	— 1	— 6	— 8	—
28	— 3	2	0	0	— 1	6	3	1	0	— 3	— 6	— 1	—
29	— 2	— 2	— 2	— 2	— 2	— 1	1	9	4	6	— 2	— 3	—
30	1	0	— 1	— 3	— 2	3	4	7	8	0	— 6	— 10	—
31	0	— 2	— 5	— 5	— 9	— 6	0	2	9	5	— 2	— 2	—
Hourly Amount.	79	52	68	86	80	105	137	162	133	149	170	165	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
DECEMBER. 1	2	6	1	— 2	— 4	— 1	— 1	0	1	0	0	— 2	70
2	12	4	— 6	— 8	— 2	— 6	— 3	— 2	— 1	0	0	1	108
3	8	1	0	— 3	— 4	— 2	— 4	0	— 6	— 5	— 1	1	98
4	4	4	3	1	— 1	1	1	— 1	— 2	— 1	0	1	63
5	6	2	1	— 3	— 5	— 4	— 2	0	2	— 5	3	5	79
6	— 3	5	3	— 5	— 3	0	— 3	— 1	1	1	0	— 2	85
7	— 7	— 5	4	5	1	3	1	— 1	1	1	3	2	78
8	— 2	3	3	3	0	2	— 1	2	3	2	— 2	1	72
9	— 6	— 9	— 3	4	6	5	6	0	0	1	0	— 1	93
10	0	0	3	1	1	— 1	0	1	1	1	0	2	27
11	1	— 2	— 1	— 1	— 1	0	1	0	2	1	0	1	37
12	1	— 1	0	3	1	0	— 1	0	0	2	1	1	52
13	3	— 3	— 3	— 1	— 1	— 3	0	— 2	1	4	3	2	74
14	1	— 4	— 2	0	0	— 1	— 2	0	— 1	1	— 4	— 11	57
15	5	— 4	— 8	— 3	5	3	1	— 4	0	— 13	— 1	— 3	125
16	3	0	1	1	— 1	— 5	— 7	— 12	— 3	— 2	— 3	— 3	91
17	2	4	— 2	0	1	1	— 1	0	0	0	3	4	36
18	0	0	4	1	0	1	1	— 2	0	— 1	1	2	53
19	1	5	— 1	0	— 1	— 2	1	1	— 1	— 1	1	3	42
20	— 1	11	8	1	— 3	— 4	— 1	0	0	1	— 2	— 3	60
21	0	1	— 4	— 5	0	— 1	— 1	2	4	4	2	3	59
22	— 2	— 5	— 6	— 6	2	6	3	3	1	— 1	— 1	0	126
23	4	2	4	0	— 1	— 3	— 1	— 2	— 1	— 3	— 4	— 2	67
24	3	— 7	— 5	— 2	— 1	5	9	9	— 3	— 2	— 1	— 1	118
25	— 7	— 1	— 1	2	1	— 2	1	2	2	3	4	5	81
26	— 8	2	3	3	4	— 2	— 1	— 3	— 9	— 1	— 2	— 3	94
27	— 2	4	7	6	2	0	— 2	— 1	— 1	0	— 1	0	68
28	0	— 4	— 1	3	2	0	1	1	0	1	1	— 1	41
29	— 8	— 6	— 4	0	1	7	4	4	3	4	1	0	78
30	— 4	— 1	— 1	— 1	— 2	2	5	6	4	5	1	0	77
31	— 6	— 3	1	3	2	2	0	2	3	0	0	— 5	74
Hourly Amount.	112	109	94	77	59	75	66	64	57	67	46	71	2283

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

DECEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	10	— 1	— 6	— 7	— 7	1	0	— 2	— 3	1	4	—
2	— 6	— 4	— 5	— 5	— 5	— 2	5	14	11	12	9	2	—
3	— 3	— 1	— 1	— 5	— 7	— 2	— 1	0	— 4	— 6	— 5	0	—
4	— 6	— 5	— 7	2	— 1	0	5	3	8	3	— 3	— 2	—
5	— 6	— 3	2	— 2	3	— 5	6	6	10	2	— 1	— 3	—
6	0	— 1	7	7	9	5	2	3	— 7	— 3	— 2	3	—
7	— 4	— 3	2	— 2	— 2	— 5	— 1	— 1	3	4	9	8	—
8	1	6	7	0	— 1	1	— 11	— 8	— 8	— 8	— 2	0	—
9	38	12	13	13	13	14	14	— 2	— 12	— 14	— 11	— 4	—
10	3	— 3	— 3	— 1	6	7	5	6	2	1	4	— 3	—
11	— 3	— 5	2	— 4	— 4	— 3	— 5	— 3	— 1	2	2	6	—
12	— 5	— 2	— 5	— 5	— 6	— 6	— 4	— 3	— 3	1	1	5	—
13	0	3	— 5	7	— 2	0	— 3	— 1	5	7	7	— 2	—
14	4	— 5	— 5	— 10	— 4	6	3	— 3	— 1	0	2	— 14	—
15	— 7	— 8	— 2	13	5	4	7	7	— 1	— 7	0	— 11	—
16	14	— 1	3	6	4	2	— 6	— 9	— 5	2	3	0	—
17	— 3	— 1	1	2	0	0	2	— 3	— 2	— 3	2	2	—
18	6	7	2	1	— 2	— 1	2	8	5	— 2	— 2	— 3	—
19	2	1	— 2	— 3	1	1	1	— 2	1	4	1	— 1	—
20	— 4	— 3	— 3	— 3	1	— 1	0	2	1	2	1	2	—
21	— 2	1	— 1	— 1	— 2	— 2	— 2	— 4	— 5	0	5	6	—
22	— 3	— 5	— 6	— 6	— 4	0	— 2	— 7	— 6	— 1	6	4	—
23	1	1	— 1	— 5	— 6	— 9	— 13	— 15	— 11	— 8	— 3	7	—
24	— 6	0	1	— 2	— 2	— 4	— 2	5	54	37	— 14	— 19	—
25	— 6	13	1	28	14	17	4	4	— 2	— 10	— 12	— 11	—
26	— 5	— 1	4	— 1	1	4	8	15	— 5	4	6	12	—
27	— 3	4	— 5	— 16	— 9	— 8	0	2	2	4	2	6	—
28	0	0	— 2	1	— 1	— 1	— 2	— 6	— 4	— 2	1	0	—
29	— 4	— 2	— 1	— 6	1	— 1	0	3	— 1	2	7	5	—
30	5	2	3	— 4	— 1	— 10	— 12	— 3	— 7	— 7	— 1	10	—
31	— 3	— 5	8	7	7	5	— 1	— 7	— 10	— 7	— 5	— 4	—
Hourly Amount.	155	118	111	174	131	133	130	155	199	168	130	159	—

DECEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 2	— 9	— 6	0	5	5	6	5	2	0	— 1	— 6	91
2	— 3	— 3	1	1	— 19	— 14	1	— 1	3	4	3	4	137
3	8	12	12	13	4	4	10	5	1	— 5	— 7	— 8	124
4	— 9	— 1	0	4	2	— 8	— 2	— 1	3	— 1	0	— 3	79
5	— 1	3	— 3	— 7	— 8	— 6	— 1	3	2	16	5	— 6	110
6	— 9	— 13	— 15	— 8	— 2	5	18	4	— 8	— 8	2	16	157
7	3	— 7	— 7	— 3	1	2	7	8	12	11	15	7	127
8	13	12	11	4	— 3	— 9	— 21	— 25	— 47	— 35	— 18	— 7	258
9	— 3	— 4	0	2	— 4	2	— 4	5	5	2	— 1	3	195
10	3	— 3	— 2	— 2	1	2	1	2	1	1	2	— 5	69
11	6	4	5	3	0	2	1	2	0	— 1	1	— 1	66
12	4	1	3	— 4	— 5	— 3	— 1	3	5	— 1	0	— 2	78
13	— 7	— 4	0	5	17	14	2	— 3	— 7	— 10	4	0	115
14	— 5	— 8	— 1	1	12	— 2	1	— 3	25	11	4	10	140
15	— 23	— 29	— 10	— 10	— 6	— 14	— 1	8	1	18	7	3	202
16	4	2	3	— 3	— 3	— 1	— 2	11	4	— 4	— 7	4	103
17	— 2	— 3	— 2	1	0	0	1	0	— 5	— 1	1	0	37
18	— 7	— 3	— 2	— 1	0	— 2	— 1	2	2	2	— 3	— 4	70
19	— 1	4	8	0	— 4	— 10	— 2	— 4	0	3	2	— 2	60
20	6	0	2	2	— 2	— 3	— 1	— 1	3	— 1	1	0	45
21	5	8	10	7	5	4	6	2	— 3	— 5	— 6	— 7	99
22	6	0	— 4	— 14	— 10	— 3	0	3	7	8	9	5	119
23	13	23	15	8	2	6	7	— 1	— 2	— 3	— 3	— 4	167
24	— 29	— 17	— 13	4	11	5	— 37	— 29	2	7	— 2	— 1	303
25	— 6	0	— 1	3	— 7	3	— 7	— 10	— 6	— 6	— 1	— 3	175
26	3	— 1	— 5	— 3	— 1	4	5	6	— 5	— 4	— 6	4	113
27	4	7	0	— 3	— 3	— 1	0	— 1	2	1	2	4	89
28	3	0	3	3	2	— 1	0	— 4	— 1	— 2	— 3	— 5	47
29	4	— 3	— 10	— 9	— 5	— 4	1	2	3	2	7	9	92
30	17	21	4	0	— 1	— 4	— 6	— 13	— 6	— 7	— 4	— 5	153
31	2	9	7	1	12	21	21	19	4	3	— 9	— 7	184
Hourly Amount.	211	214	165	129	157	164	174	186	177	183	136	145	3804

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER. 1	— 6	— 10	— 1	3	4	4	— 4	4	7	2	4	5	—
2	4	1	1	— 1	— 2	0	— 7	— 26	— 18	— 8	— 4	6	—
3	— 3	— 3	— 2	1	2	4	3	5	1	— 5	— 9	— 9	—
4	— 3	— 4	— 2	— 5	— 3	— 5	1	14	13	9	8	0	—
5	5	2	— 2	— 1	— 2	4	0	— 3	— 3	5	5	— 1	—
6	1	2	— 3	— 3	— 3	5	10	3	11	10	6	1	—
7	5	2	— 2	2	0	5	0	4	2	— 1	1	0	—
8	2	1	— 3	— 2	— 1	— 3	1	6	6	5	— 1	1	—
9	— 23	— 11	— 9	— 9	— 6	— 2	— 4	14	15	11	11	5	—
10	0	4	4	3	— 3	— 4	— 5	— 10	— 4	1	— 3	4	—
11	2	2	— 2	2	2	1	3	8	3	— 2	— 11	— 7	—
12	1	0	2	2	3	5	8	7	— 3	— 5	— 2	0	—
13	3	1	8	4	8	8	15	— 10	— 6	— 3	1	6	—
14	0	6	6	9	5	1	0	— 4	— 4	0	— 2	5	—
15	5	3	— 1	— 10	— 7	— 8	— 10	— 8	— 6	2	1	6	—
16	— 8	2	1	— 2	0	1	7	5	3	— 4	— 9	— 4	—
17	2	1	0	0	1	1	7	4	5	— 1	— 2	— 4	—
18	— 5	— 6	— 4	— 2	— 2	— 4	— 6	8	7	8	4	— 3	—
19	0	2	2	2	0	— 1	— 4	2	1	3	0	— 7	—
20	2	1	3	2	1	3	— 1	— 3	— 5	— 5	— 2	0	—
21	2	1	1	0	2	2	2	6	11	3	— 2	— 6	—
22	3	2	2	— 1	— 3	— 7	— 2	6	3	— 5	— 13	— 10	—
23	4	5	5	8	6	4	— 3	— 13	— 10	— 2	4	2	—
24	6	3	1	4	4	2	— 3	— 30	— 49	— 31	13	23	—
25	— 4	— 14	— 6	— 22	— 14	— 15	— 3	9	4	10	11	9	—
26	1	1	— 2	0	1	0	— 2	4	5	— 3	2	— 7	—
27	2	— 3	4	7	— 1	— 5	— 5	2	3	3	— 2	— 4	—
28	1	2	2	4	4	0	0	3	7	1	— 5	— 5	—
29	3	1	0	2	— 1	— 1	— 4	— 7	0	— 6	— 9	— 3	—
30	— 2	2	3	5	2	5	4	— 4	0	2	4	— 1	—
31	2	3	— 4	— 1	1	1	3	1	0	6	— 2	— 4	—
Hourly Amount.	110	101	88	119	94	111	127	233	215	162	153	148	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
DECEMBER. 1	0	— 5	— 3	— 1	— 1	1	— 1	1	3	2	2	4	78
2	18	20	20	14	16	9	— 3	— 5	— 9	— 9	— 8	— 7	216
3	— 9	0	2	3	3	— 2	— 2	— 1	5	5	4	— 1	84
4	— 10	— 16	— 14	— 9	0	6	1	2	0	2	3	2	132
5	— 9	— 8	— 8	— 2	4	2	— 1	— 1	— 2	— 5	— 2	4	81
6	— 2	— 11	— 7	— 5	— 6	— 7	— 9	— 1	7	8	3	— 6	130
7	— 1	— 3	— 8	— 8	— 5	— 2	— 2	— 2	— 4	— 6	— 6	— 1	72
8	— 5	— 3	0	5	2	4	9	11	22	19	5	— 4	121
9	— 3	— 7	— 13	— 11	— 5	— 3	1	— 2	— 2	3	4	3	177
10	1	0	4	3	1	— 1	— 2	— 4	— 2	— 1	— 1	4	69
11	— 4	— 1	4	3	2	1	1	— 2	— 3	— 1	— 2	0	69
12	0	— 5	— 4	2	2	0	— 2	— 2	— 4	— 1	— 1	2	63
13	9	8	— 3	— 8	— 15	— 12	— 5	— 1	1	2	— 6	— 4	147
14	— 1	— 4	— 3	— 4	— 6	2	2	0	— 12	— 3	— 1	— 4	84
15	19	23	13	12	7	13	0	— 8	— 5	— 11	— 5	— 1	184
16	— 3	0	0	0	0	0	1	— 5	— 3	3	4	— 4	69
17	— 3	— 2	— 5	— 3	0	— 1	0	1	2	— 2	— 4	— 2	53
18	— 5	— 4	— 8	— 6	1	2	3	2	2	1	4	6	103
19	— 8	— 6	3	0	3	4	1	2	0	2	0	3	56
20	— 1	— 3	— 1	— 2	0	4	1	2	— 2	0	0	0	44
21	— 4	— 5	— 5	— 8	— 10	— 4	— 5	— 1	2	4	3	3	92
22	0	15	17	11	2	— 8	— 5	— 2	— 3	— 4	— 3	2	129
23	— 2	— 6	1	9	6	1	— 1	0	2	3	4	4	105
24	41	43	26	— 1	— 13	— 16	20	10	— 5	— 13	— 4	— 9	370
25	9	6	— 2	— 5	1	5	0	1	0	— 1	— 3	— 2	156
26	— 8	— 12	— 9	— 4	3	0	— 2	— 1	6	4	4	— 2	83
27	— 11	— 7	2	10	9	4	1	— 1	— 2	— 1	— 2	— 1	92
28	— 5	— 3	— 3	— 3	1	4	3	3	1	1	1	3	65
29	4	8	10	5	1	1	— 1	— 2	— 5	— 5	— 6	— 5	90
30	— 11	— 13	3	10	5	1	4	7	1	— 1	— 2	1	93
31	— 1	— 7	— 9	— 8	— 6	— 9	— 10	— 6	4	4	10	9	111
Hourly Amount.	207	254	210	175	136	129	99	89	121	127	107	103	3418

RESULTS OF METEOROLOGICAL OBSERVATIONS.

TABLE 1. Mean height of the Barometer in 1888.

Barometer at 0°C = 750mm + the numbers in the Table.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1 a. m.	9.55	9.83	9.57	8.85	8.54	9.22	9.86	10.08	9.64	9.46	9.31	9.17	9.42
2	9.25	9.47	9.11	8.41	8.10	8.87	9.56	9.73	9.31	9.10	8.88	8.74	9.04
3	9.02	9.25	8.90	8.21	7.84	8.58	9.34	9.50	9.10	8.90	8.75	8.42	8.82
4	9.05	9.30	8.84	8.10	7.72	8.55	9.32	9.45	9.03	8.94	8.79	8.39	8.79
5	9.30	9.49	9.07	8.17	7.88	8.74	9.49	9.62	9.20	9.21	9.15	8.59	8.99
6	9.71	9.80	9.34	8.47	8.20	8.93	9.77	9.90	9.64	9.59	9.52	9.01	9.32
7	10.16	10.24	9.79	8.96	8.68	9.38	10.20	10.43	10.09	10.09	10.01	9.59	9.80
8	10.49	10.75	10.26	9.32	9.14	9.81	10.58	10.84	10.47	10.46	10.35	10.01	10.20
9	10.60	10.93	10.51	9.52	9.27	9.92	10.68	11.04	10.68	10.44	10.41	10.15	10.35
10	10.45	10.82	10.41	9.50	9.20	9.74	10.44	10.78	10.45	10.09	10.16	10.02	10.17
11	10.21	10.53	10.07	9.14	8.84	9.40	9.98	10.26	9.84	9.61	9.71	9.60	9.76
12	9.81	10.05	9.46	8.52	8.28	8.82	9.38	9.59	9.17	8.93	9.08	9.11	9.18
1 p. m.	9.29	9.35	8.69	7.83	7.69	8.29	8.81	8.99	8.54	8.25	8.31	8.38	8.53
2	8.65	8.73	7.99	7.18	7.08	7.73	8.22	8.38	7.96	7.65	7.74	7.74	7.92
3	8.15	8.25	7.56	6.75	6.71	7.39	7.93	8.00	7.63	7.32	7.38	7.32	7.53
4	7.90	8.08	7.46	6.85	6.82	7.33	7.95	7.97	7.60	7.29	7.42	7.32	7.50
5	8.16	8.29	7.73	7.34	7.08	7.55	8.19	8.18	7.90	7.64	7.75	7.68	7.79
6	8.74	8.74	8.32	7.72	7.51	7.93	8.51	8.60	8.47	8.22	8.34	8.30	8.28
7	9.29	9.28	8.96	8.30	8.06	8.50	9.00	9.21	9.08	8.89	8.97	8.87	8.87
8	9.83	9.82	9.48	8.92	8.56	9.04	9.59	9.79	9.69	9.46	9.51	9.49	9.43
9	10.24	10.28	9.90	9.38	9.03	9.55	10.03	10.22	10.08	9.88	9.91	9.94	9.87
10	10.39	10.56	10.26	9.53	9.19	9.79	10.27	10.51	10.36	10.16	10.09	10.04	10.10
11	10.29	10.55	10.29	9.49	9.16	9.72	10.28	10.59	10.38	10.09	10.03	9.96	10.07
12	9.97	10.22	10.02	9.27	8.93	9.63	10.16	10.39	10.08	9.79	9.73	9.67	9.82
Monthly Means.	9.52	9.69	9.25	8.49	8.23	8.85	9.48	9.67	9.35	9.14	9.14	8.98	9.15

TABLE 2. Mean Temperature of the Air in 1888.

Centesimal degrees.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	23.56	23.90	24.30	24.43	24.42	24.50	24.07	24.07	24.59	24.68	24.59	24.60	24.31
2	23.41	23.73	24.11	24.20	24.20	24.20	23.69	23.74	24.26	24.30	24.30	24.40	24.04
3	23.30	23.58	23.86	24.04	24.00	23.94	23.30	23.47	23.95	23.96	24.07	24.20	23.81
4	23.22	23.41	23.69	23.86	23.81	23.73	22.95	23.17	23.67	23.69	23.84	24.04	23.59
5	23.14	23.24	23.50	23.70	23.60	23.51	22.65	22.89	23.39	23.42	23.68	23.90	23.38
6	23.04	23.14	23.30	23.57	23.41	23.26	22.32	22.66	23.23	23.30	23.57	23.83	23.22
7	23.31	23.33	23.56	23.87	23.72	23.46	22.46	22.94	23.76	24.18	24.56	24.48	23.63
8	24.00	24.21	24.84	25.08	24.94	24.70	23.72	24.61	25.43	26.04	26.46	25.67	24.97
9	24.86	25.17	26.41	26.52	26.57	26.46	25.73	26.61	27.34	28.02	28.14	27.10	26.58
10	25.57	26.03	27.71	27.87	27.92	28.04	27.41	28.31	28.91	29.62	29.54	28.22	27.93
11	26.14	26.87	28.53	28.81	28.87	29.06	28.63	29.64	29.94	30.70	30.32	29.01	28.87
12	26.56	27.15	29.19	29.54	29.53	29.77	29.63	30.32	30.43	30.90	30.35	29.13	29.37
1 p. m.	26.77	27.35	29.01	29.74	29.76	30.17	30.07	30.34	30.47	30.86	30.49	29.11	29.52
2	26.76	27.59	29.21	29.61	29.72	30.26	29.83	30.28	30.22	30.71	30.21	29.32	29.48
3	26.68	27.57	28.90	29.27	29.36	29.96	29.47	29.92	29.81	30.39	29.82	28.92	29.18
4	26.55	27.09	28.39	28.44	28.70	29.64	28.95	29.39	29.20	29.88	29.19	28.34	28.65
5	26.37	26.67	27.80	27.40	28.14	28.91	28.29	28.82	28.65	29.28	28.69	27.72	28.07
6	25.87	26.13	26.82	26.55	27.34	27.94	27.44	27.97	27.79	28.37	27.96	26.96	27.26
7	25.34	25.55	26.13	25.97	26.58	27.14	26.70	27.25	27.23	27.61	27.19	26.29	26.59
8	24.91	24.97	25.52	25.55	26.01	26.45	26.07	26.52	26.69	26.93	26.46	25.86	25.99
9	24.47	24.66	25.16	25.29	25.51	25.90	25.59	25.82	26.21	26.36	25.90	25.60	25.54
10	24.18	24.48	24.88	25.07	25.14	25.43	25.25	25.29	25.82	25.90	25.56	25.25	25.19
11	23.87	24.33	24.68	24.85	24.86	25.13	24.86	24.82	25.45	25.47	25.19	24.99	24.87
12	23.72	24.04	24.52	24.63	24.60	24.81	24.55	24.44	24.96	25.10	24.93	24.76	24.59
Monthly Means.	24.82	25.18	26.00	26.16	26.28	26.52	25.98	26.39	26.73	27.07	26.87	26.32	26.20

TABLE 3. Mean relative Humidity of the Air in 1888.

Saturation = 1000.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	942	942	932	934	932	915	878	865	875	879	889	920	908
2	942	945	937	939	936	923	885	873	879	889	898	926	914
3	947	950	942	944	940	927	892	878	883	897	903	932	919
4	949	953	947	946	942	930	895	886	889	901	909	934	923
5	953	956	949	950	943	930	900	895	895	907	912	937	927
6	953	954	949	952	943	938	900	897	897	907	914	937	928
7	949	948	942	943	929	928	888	880	874	871	869	916	912
8	928	911	887	898	888	890	847	815	802	791	792	862	859
9	893	873	814	835	824	813	754	725	701	696	710	787	785
10	863	834	764	772	757	730	669	637	618	613	636	737	719
11	827	798	732	733	718	685	609	571	570	569	611	702	677
12	807	786	699	694	691	647	569	561	570	593	632	702	662
1 p. m.	801	776	725	699	683	638	568	584	588	583	631	719	666
2	791	760	715	706	692	642	582	580	597	586	645	714	667
3	797	761	724	716	710	663	599	589	601	599	667	733	680
4	805	778	741	750	742	682	619	611	636	623	691	752	702
5	824	798	765	795	776	722	661	637	667	653	721	784	733
6	849	835	817	842	817	771	713	686	712	705	757	818	777
7	878	862	852	881	859	811	763	728	753	758	797	851	816
8	897	890	883	903	876	847	799	769	788	796	825	873	845
9	914	906	896	916	902	870	820	794	810	820	851	882	865
10	921	920	908	923	911	885	839	818	832	841	862	897	880
11	932	929	922	929	918	896	857	838	847	854	869	909	891
12	939	935	928	936	926	907	865	850	860	868	879	915	900
Monthly Means	888	875	849	856	844	816	765	749	756	758	786	839	815

TABLE 3A. Mean relative Humidity of the Air in 1888.

Calculated according to Weihrauch's method.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	943	944	932	935	933	914	878	864	872	877	886	918	908
2	943	947	937	940	937	923	885	874	878	886	894	923	914
3	947	951	944	945	941	928	893	878	882	896	899	929	919
4	950	954	947	949	943	930	897	887	888	901	906	932	924
5	954	958	949	952	944	930	901	896	894	905	909	934	928
6	954	955	951	952	944	939	902	898	898	905	912	935	929
7	951	949	945	946	932	929	890	882	876	874	873	916	914
8	931	914	892	902	890	892	847	819	808	798	800	867	863
9	896	876	819	837	827	816	759	729	707	702	716	794	787
10	865	836	767	775	760	733	674	640	621	618	640	741	719
11	831	798	735	736	719	687	613	573	573	571	613	706	676
12	810	787	702	695	691	649	571	563	572	593	633	702	660
1 p. m.	803	777	727	701	683	640	570	586	587	582	632	715	663
2	792	761	717	707	691	643	585	583	597	583	644	711	665
3	798	763	727	718	709	663	602	592	600	596	667	729	677
4	806	778	742	731	740	684	621	611	635	622	689	747	700
5	828	799	764	795	775	723	663	637	666	653	718	778	731
6	853	835	816	842	816	772	714	687	711	705	753	813	775
7	879	863	850	881	858	811	764	729	752	756	791	846	813
8	899	892	882	904	875	847	799	769	787	792	819	869	844
9	916	908	896	916	901	869	821	794	809	817	845	878	863
10	923	922	909	924	912	885	841	817	830	838	857	895	878
11	935	931	922	930	919	896	858	839	845	851	864	907	891
12	940	937	928	937	927	907	866	850	859	866	873	913	900
Monthly Means.	887	873	845	851	838	808	757	739	746	746	777	832	807

TABLE 4. Mean Tension of the Atmospheric vapour in 1888.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1 a. m.	20.38	20.81	21.05	21.28	21.23	20.91	19.56	19.26	20.05	20.27	20.37	21.11	20.52
2	20.20	20.68	20.93	21.11	21.04	20.73	19.28	19.09	19.78	20.02	20.20	20.98	20.33
3	20.16	20.57	20.76	21.02	20.88	20.50	19.00	18.88	19.52	19.82	20.03	20.86	20.16
4	20.13	20.44	20.63	20.87	20.68	20.31	18.68	18.73	19.32	19.62	19.90	20.73	20.00
5	20.10	20.30	20.45	20.74	20.45	20.03	18.44	18.60	19.14	19.40	19.77	20.60	19.83
6	19.98	20.13	20.23	20.59	20.23	19.94	18.09	18.38	19.02	19.26	19.71	20.53	19.67
7	20.24	20.23	20.41	20.81	20.34	19.97	18.01	18.36	19.16	19.59	20.03	20.92	19.84
8	20.65	20.53	20.80	21.33	20.89	20.64	18.47	18.84	19.53	19.99	20.54	21.26	20.29
9	20.94	20.84	20.97	21.58	21.38	20.95	18.66	18.89	19.11	19.76	20.28	21.17	20.37
10	21.08	20.93	21.21	21.60	21.25	20.64	18.30	18.31	18.40	19.08	19.67	21.11	20.13
11	20.93	21.00	21.30	21.67	21.26	20.54	17.86	17.70	18.00	18.74	19.70	21.04	19.97
12	20.92	21.04	21.14	21.37	21.23	20.21	17.65	18.10	18.49	19.70	20.37	21.08	20.10
1 p. m.	21.00	21.03	21.66	21.80	21.26	20.38	18.06	18.86	19.04	19.29	20.52	21.44	20.36
2	20.72	20.90	21.61	21.81	21.45	20.58	18.28	18.68	19.08	19.15	20.58	21.57	20.36
3	20.76	20.91	21.52	21.73	21.58	20.88	18.42	18.58	18.72	19.22	20.83	21.61	20.39
4	20.83	20.74	21.34	21.66	21.67	21.14	18.45	18.62	19.14	19.48	20.75	21.42	20.43
5	21.15	20.77	21.21	21.58	21.95	21.42	18.95	18.78	19.46	19.76	21.01	21.51	20.63
6	21.16	21.04	21.42	21.75	22.06	21.61	19.43	19.26	19.75	20.26	21.12	21.50	20.86
7	21.14	21.00	21.42	21.98	22.19	21.68	19.90	19.62	20.20	20.77	21.20	21.52	21.05
8	21.05	20.96	21.42	21.99	21.89	21.74	20.06	19.82	20.50	20.92	21.05	21.54	21.08
9	20.90	20.95	21.30	21.95	21.88	21.60	20.04	19.63	20.47	20.86	21.01	21.44	21.00
10	20.70	21.06	21.24	21.84	21.65	21.38	20.10	19.59	20.53	20.82	20.87	21.40	20.93
11	20.57	21.06	21.31	21.72	21.47	21.26	20.04	19.55	20.46	20.61	20.59	21.34	20.83
12	20.52	20.84	21.24	21.58	21.32	21.12	19.86	19.38	20.18	20.51	20.48	21.20	20.68
Monthly Means.	20.68	20.78	21.11	21.47	21.30	20.84	18.90	18.90	19.46	19.87	20.44	21.20	20.41

TABLE 4A. Deficiency of Saturation for the year 1888.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1 a. m.	1.23	1.24	1.54	1.49	1.53	1.96	2.72	3.02	2.94	2.84	2.62	1.89	2.08
2	1.22	1.15	1.40	1.34	1.41	1.72	2.50	2.75	2.75	2.57	2.39	1.75	1.91
3	1.12	1.07	1.24	1.22	1.30	1.60	2.28	2.62	2.60	2.31	2.25	1.59	1.77
4	1.05	0.98	1.15	1.13	1.25	1.52	2.15	2.38	2.43	2.16	2.07	1.51	1.65
5	0.97	0.90	1.09	1.05	1.21	1.52	2.02	2.16	2.26	2.04	1.99	1.45	1.55
6	0.96	0.94	1.05	1.03	1.19	1.29	1.96	2.09	2.17	2.02	1.91	1.43	1.51
7	1.05	1.09	1.20	1.20	1.48	1.52	2.22	2.46	2.71	2.83	2.92	1.92	1.86
8	1.53	1.93	2.53	2.33	2.58	2.50	3.35	4.17	4.64	5.06	5.15	3.26	3.22
9	2.42	2.96	4.65	4.20	4.48	4.74	5.94	7.03	7.94	8.37	8.06	5.50	5.50
10	3.29	4.11	6.43	6.29	6.72	7.53	8.87	10.31	11.23	11.80	11.07	7.36	7.86
11	4.27	5.32	7.69	7.79	8.30	9.35	11.30	13.21	13.44	14.10	12.44	8.76	9.59
12	4.92	5.71	8.97	9.37	9.49	10.94	13.24	14.04	13.85	13.51	11.83	8.93	10.34
1 p. m.	5.16	6.04	8.14	9.29	9.87	11.48	13.62	13.32	13.38	13.85	11.93	8.54	10.34
2	5.43	6.55	8.54	9.05	9.61	11.45	12.97	13.38	12.88	13.71	11.36	8.78	10.27
3	5.26	6.51	8.09	8.53	8.84	10.60	12.20	12.83	12.50	13.05	10.40	8.03	9.71
4	5.00	5.91	7.41	7.18	7.61	9.77	11.25	11.85	10.99	11.86	9.36	7.25	8.77
5	4.41	5.24	6.57	5.57	6.39	8.21	9.63	10.69	9.74	10.51	8.25	6.14	7.59
6	3.65	4.15	4.82	4.08	4.99	6.39	7.78	8.79	8.01	8.46	6.92	4.95	6.07
7	2.90	3.34	3.77	2.97	3.68	5.05	6.15	7.29	6.68	6.71	5.61	3.91	4.84
8	2.37	2.55	2.88	2.35	3.12	3.94	5.04	5.96	5.54	5.49	4.64	3.25	3.90
9	1.93	2.13	2.48	2.02	2.40	3.25	4.36	5.10	4.84	4.68	3.84	2.97	3.33
10	1.72	1.78	2.14	1.81	2.10	2.79	3.81	4.38	4.20	4.03	3.48	2.51	2.90
11	1.44	1.57	1.80	1.63	1.89	2.48	3.32	3.76	3.74	3.62	3.24	2.20	2.54
12	1.30	1.40	1.66	1.46	1.68	2.17	3.08	3.41	3.31	3.18	2.97	2.02	2.31
Monthly Means.	2.63	3.03	3.88	3.76	4.12	4.94	6.06	6.69	6.64	6.75	5.88	4.28	4.88

TABLE 5. Hourly, monthly and annual mean amount of cloud in 1888.

A sky free from cloud is represented by 0, entirely overcast by 10.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	7.5	7.0	6.2	5.6	4.5	4.1	4.1	4.0	5.2	3.9	3.8	6.2	5.18
2	7.9	6.9	5.5	6.1	4.2	3.8	3.1	4.4	5.2	3.7	3.6	5.5	4.98
3	7.8	7.2	5.3	6.0	4.2	3.4	3.0	3.5	4.0	3.0	3.3	5.5	4.67
4	8.5	6.8	5.2	5.6	4.0	3.7	2.9	2.7	3.5	2.5	2.6	5.3	4.43
5	8.8	6.8	5.0	5.6	4.4	3.7	2.8	3.1	4.1	4.0	3.8	5.7	4.81
6	8.9	7.8	5.8	6.3	5.4	4.9	4.8	3.6	4.2	3.8	3.7	5.6	5.39
7	9.1	7.6	4.9	5.6	4.5	4.3	4.0	3.0	4.1	3.2	3.8	5.4	4.95
8	8.8	7.4	4.6	5.4	4.4	3.3	2.7	2.2	3.3	2.5	3.5	5.1	4.42
9	9.2	7.4	5.1	5.2	4.5	2.8	2.7	2.7	3.6	2.5	3.9	5.9	4.62
10	9.0	7.8	5.8	5.3	5.0	3.3	3.1	3.5	4.6	3.8	5.4	7.0	5.30
11	9.1	7.6	6.2	6.1	5.7	4.3	3.7	4.0	5.8	5.4	6.3	7.0	5.92
12	9.2	8.0	6.5	6.2	6.5	4.9	4.3	4.5	5.5	5.7	6.4	7.7	6.28
1 p. m.	9.2	8.0	7.0	6.2	6.5	4.9	4.3	3.6	4.6	4.6	5.2	7.3	5.95
2	8.9	7.7	6.2	6.0	6.6	4.7	3.5	2.5	3.8	4.3	5.2	7.3	5.56
3	8.7	7.6	6.2	6.3	6.4	4.7	3.3	2.4	4.0	3.8	5.8	7.4	5.54
4	8.3	7.8	6.0	7.1	7.0	3.6	3.0	3.1	4.0	4.1	5.5	8.1	5.64
5	8.4	8.0	6.9	7.8	7.0	3.7	3.2	3.6	5.4	4.3	6.0	8.2	6.03
6	8.4	7.8	7.6	7.7	7.4	4.4	4.0	4.6	6.0	4.9	6.5	7.8	6.43
7	8.4	7.6	8.3	7.2	6.7	3.4	3.6	4.6	5.9	5.5	5.9	8.1	6.27
8	7.8	6.9	8.1	6.8	6.5	3.0	5.0	5.0	7.0	5.2	5.7	8.0	6.27
9	7.9	7.1	7.6	6.7	5.2	4.3	5.6	5.5	7.7	5.1	5.4	7.8	6.33
10	7.7	7.2	7.0	6.6	4.5	4.6	5.5	5.5	7.0	4.8	4.4	7.2	6.01
11	6.9	7.0	6.3	6.0	4.7	4.4	5.4	4.9	6.6	4.6	4.6	7.1	5.71
12	7.2	6.6	6.3	5.8	4.5	4.1	5.0	3.7	6.1	4.0	4.0	6.5	5.31
Monthly Means.	8.40	7.41	6.24	6.22	5.43	4.01	3.86	3.76	5.05	4.14	4.76	6.77	5.50

TABLE 6. Hourly, monthly and annual means of the recorded velocity of the wind for the year 1888.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.
1 a. m.	0.39	0.77	0.85	0.21	0.00	0.27	0.34	1.01	1.65	1.19	0.56	0.18	0.62
2	0.59	0.97	0.98	0.16	0.03	0.35	0.46	1.21	2.03	1.32	0.37	0.26	0.73
3	0.52	1.27	1.08	0.32	0.10	0.27	0.59	1.29	2.24	1.35	0.32	0.23	0.80
4	0.65	1.41	1.01	0.21	0.03	0.19	0.46	0.95	1.84	1.08	0.40	0.39	0.72
5	0.65	1.55	0.98	0.29	0.08	0.11	0.31	0.93	1.55	1.14	0.35	0.34	0.68
6	0.59	1.74	0.77	0.32	0.10	0.16	0.54	1.01	1.89	1.50	0.61	0.15	0.78
7	1.26	1.88	1.50	0.77	0.77	0.69	0.98	1.94	3.04	3.15	1.55	0.59	1.51
8	1.96	2.29	2.58	1.47	0.52	1.60	1.29	3.17	5.05	4.16	1.95	1.39	2.28
9	4.13	4.19	4.52	3.55	2.94	4.20	3.02	5.72	7.84	6.45	3.58	2.32	4.37
10	6.81	6.09	6.23	4.89	4.89	6.99	4.24	6.79	8.94	8.47	4.94	2.94	6.01
11	9.35	8.19	7.35	5.75	6.05	8.38	5.20	8.67	9.91	9.78	6.45	4.60	7.47
12	10.21	9.84	9.43	7.81	6.82	8.48	6.37	10.39	12.15	12.11	9.66	6.40	9.13
1 p. m.	9.72	10.44	10.55	8.47	7.37	8.18	8.80	13.31	15.37	14.34	11.07	6.71	10.36
2	9.40	10.83	11.23	9.31	8.34	9.54	11.15	15.02	16.28	15.35	11.55	7.16	11.26
3	7.91	10.22	11.13	8.75	8.40	9.90	11.55	16.77	16.49	16.05	10.53	6.50	11.19
4	5.76	8.52	9.51	6.53	6.92	9.77	10.87	15.58	15.77	14.18	8.59	5.18	9.77
5	3.77	6.34	6.96	4.68	3.86	6.65	8.09	12.27	11.92	10.93	4.65	3.23	6.95
6	1.75	3.31	4.29	2.56	1.86	2.88	2.86	6.37	7.19	6.03	2.32	1.52	3.58
7	0.83	2.02	3.07	1.28	0.85	0.88	0.46	2.55	3.79	2.50	1.09	0.95	1.69
8	1.01	1.49	2.14	0.61	0.49	0.48	0.15	1.63	2.32	1.45	1.31	0.83	1.16
9	1.01	1.08	1.39	0.59	0.21	0.46	0.10	1.73	1.79	1.27	0.85	0.57	0.92
10	0.93	0.88	1.29	0.40	0.15	0.48	0.08	1.42	1.73	1.29	0.59	0.54	0.82
11	0.67	1.16	1.11	0.43	0.10	0.51	0.28	1.65	1.84	1.03	0.61	0.31	0.81
12	0.34	1.13	1.06	0.40	0.08	0.32	0.39	1.27	1.97	0.95	0.51	0.31	0.72
Monthly Means.	3.34	4.07	4.21	2.91	2.54	3.41	3.28	5.53	6.44	5.71	3.52	2.23	3.93

TABLE 7. Hourly and monthly means of the four components of the wind in the year 1888.

Velocity in kilometers pér hour.

Hours of mean Batavia Time.	January.				February.				March.			
	N.	E.	S.	W.	N.	E.	S.	W.	N.	E.	S.	W.
1 a. m.	0.19	—	0.05	0.19	0.48	0.09	0.10	0.24	0.04	0.05	0.47	0.43
2	0.37	—	0.03	0.34	0.57	0.11	0.14	0.39	0.11	0.10	0.47	0.54
3	0.30	—	0.02	0.26	0.84	0.06	0.13	0.54	0.16	0.07	0.61	0.42
4	0.47	—	—	0.32	1.14	0.19	0.11	0.26	0.13	0.34	0.46	0.30
5	0.46	—	0.01	0.28	1.12	0.29	0.11	0.52	0.10	0.29	0.51	0.36
6	0.26	—	—	0.46	1.25	0.16	0.08	0.70	0.13	0.20	0.37	0.31
7	0.41	—	0.13	1.07	1.11	0.23	0.15	0.69	0.26	0.30	0.74	0.61
8	1.15	—	0.12	1.36	1.19	0.31	0.36	0.90	0.43	0.59	1.14	1.07
9	2.72	—	0.02	2.77	2.06	0.49	0.44	2.15	0.87	1.35	2.05	1.44
10	4.91	—	0.08	4.17	4.09	0.22	0.31	3.32	1.67	3.05	1.46	1.77
11	7.55	—	—	4.52	5.95	0.97	0.20	3.46	3.01	3.48	0.81	1.60
12	8.73	—	—	4.37	7.83	1.52	0.14	3.05	4.85	4.76	0.20	1.62
1 p. m.	8.56	0.19	—	3.62	9.23	1.42	—	2.17	7.72	4.09	—	0.89
2	8.34	0.36	—	2.78	10.13	0.68	—	1.93	8.77	3.67	0.20	1.00
3	6.67	0.26	0.15	2.25	9.13	1.34	—	1.77	9.19	3.06	0.32	0.85
4	5.09	0.12	—	1.36	6.61	0.94	0.81	1.50	7.75	2.61	—	1.26
5	3.12	—	0.03	1.09	4.64	0.75	0.59	1.34	4.35	1.63	0.48	2.03
6	1.27	0.02	0.07	0.68	2.44	0.37	0.39	0.77	1.81	0.94	1.36	1.37
7	0.45	—	0.02	0.52	0.91	0.25	0.48	0.93	0.42	0.52	1.27	1.76
8	0.39	—	0.26	0.64	0.57	0.13	0.50	0.58	0.51	0.56	0.91	0.86
9	0.37	—	0.10	0.64	0.59	0.08	0.15	0.36	0.23	0.31	0.79	0.46
10	0.43	0.09	0.14	0.50	0.43	0.11	0.14	0.41	0.32	0.33	0.52	0.45
11	0.28	—	0.10	0.49	0.66	0.12	0.22	0.38	0.26	0.27	0.46	0.42
12	0.05	—	0.06	0.29	0.78	0.08	0.11	0.40	0.10	0.17	0.58	0.47
Monthly Means.	2.61	0.04	0.06	1.46	3.07	0.45	0.24	1.20	2.22	1.36	0.67	0.93

TABLE 7. Continued.

Hours of mean Batavia Time.	April.				May.				June.			
	N.	E.	S.	W.	N.	E.	S.	W.	N.	E.	S.	W.
1 a. m.	0.08	0.05	0.02	0.13	—	—	—	—	0.08	0.20	0.05	0.02
2	0.04	0.07	0.05	0.04	—	0.03	—	—	0.09	0.19	0.13	—
3	0.12	0.15	0.01	0.08	—	0.10	—	—	0.08	0.23	0.02	—
4	0.18	0.02	—	0.06	—	0.03	—	—	0.04	0.17	0.03	—
5	0.06	0.22	0.06	0.04	0.02	0.07	0.02	—	0.02	0.10	0.02	—
6	0.09	0.17	0.10	0.06	0.01	0.08	0.05	—	0.09	0.10	—	—
7	0.25	0.30	0.20	0.23	0.31	0.43	0.08	0.08	0 26	0.51	0.02	—
8	0.14	0.69	0.83	0.23	0.04	0.47	0.07	0.02	0.12	1.31	0.33	0.15
9	0.42	2.46	0.94	0.39	0.20	1.90	1.49	0.23	0.22	3.24	2.02	0.02
10	0.43	3.24	1.53	0.68	0.31	3.92	1.38	0.26	0.15	6.07	2.47	—
11	1.31	4.30	0.46	0.84	0.30	5.05	1.56	0.26	0.14	7.91	1.81	0.04
12	3.31	5.27	0.23	0.73	1.68	5.78	0.82	0.15	0.53	8.01	1.16	0.05
1 p. m.	5.02	4.91	—	0.53	2.94	5.89	0.07	—	1.66	7.17	0.71	0.08
2	6.35	4.95	0.03	0.39	4.09	6.07	0.20	0.03	3.84	7.67	0.47	—
3	5.90	4.45	0.15	0.60	5.12	5.45	0.06	0.31	4.92	7.39	—	—
4	4.14	2.81	0.13	1.02	3.01	4.90	0.53	0.43	3.86	7.97	—	—
5	2.09	2.10	0.89	0.63	1.17	2.94	0.48	0.21	2.28	5.66	0.04	0.16
6	0.55	1.11	0.95	0.50	0.25	1.10	0.46	0.41	0.81	2.51	0.10	0.10
7	0.34	0.34	0.42	0.45	0.14	0 54	0.16	0.13	0.26	0.78	0.01	0.02
8	0.19	0.10	0.27	0.23	0.18	0.26	0.09	0.03	0.17	0.31	0.03	0.07
9	0.11	0.20	0.31	0.09	0.10	0.11	—	0.05	0.01	0.08	0 34	0.14
10	0.06	0.23	0.17	0.05	0.06	0.09	0.02	0.02	0.10	0.16	0.22	0.15
11	0.05	0.25	0.15	0.07	—	0.10	0 02	—	0.14	0.25	0.20	0.08
12	0.09	0.23	0.17	0.02	—	0.07	0.02	—	0.08	0.19	0.10	0.04
Monthly Means.	1.31	1.61	0.34	0.34	0.83	1.89	0.32	0.11	0.83	2.84	0.43	0.05

TABLE 7. Continued.

Hours of mean Batavia Time.	July.				August.				September.			
	N.	E.	S.	W.	N.	E.	S.	W.	N.	E.	S.	W.
1 a. m	0.25	0.18	—	—	0.23	0.44	0.34	0.35	0.97	0.77	0.26	0.11
2	0.35	0 27	—	—	0.45	0.63	0.32	0.27	1.06	1.01	0.37	0.16
3	0.45	0.31	—	—	0.50	0.70	0.34	0.24	1.41	1.26	0.13	0.04
4	0.36	0.23	—	—	0.36	0.45	0.29	0.23	1.07	1.06	0.08	0.22
5	0.19	0.17	—	0.04	0.36	0.48	0.29	0.13	0.86	0.86	0.09	0.21
6	0.37	0.24	—	0.11	0.42	0.57	0.26	0.15	0.96	1 06	0.23	0.20
7	0.49	0.44	0.08	0.19	0.86	1.08	0.47	0.16	1.25	1.86	0.55	0.22
8	0.50	0.61	0.36	0.19	0.86	1.67	1.27	0.32	0.79	3.33	1.86	0.47
9	0.46	2.18	0 96	0.17	0.26	3.20	3.20	0.77	0.42	5.57	3.15	0.61
10	0.19	3.06	1.42	0.34	0.47	4.66	2.62	0.30	0.50	6.79	3.57	0.31
11	0.42	3.95	1.40	0.56	1.06	6.99	1.87	0.47	1.48	8.07	1.47	0.45
12	1.87	4.95	0.28	0.47	3.81	7.85	1.06	0.08	5.96	7.41	0.70	0.19
1 p. m.	5.09	5.82	0.23	0.16	10.00	7.38	0.14	—	9.94	9.88	—	—
2	8.15	5.84	—	—	12.12	7.41	—	—	11.66	8.99	0.42	—
3	8.98	6.21	—	0.11	13.31	9.69	—	—	10.49	10.66	0.19	—
4	8.46	6.13	—	—	10.70	10.42	—	—	9.38	10.98	0.16	—
5	5.41	5.51	—	—	8.02	8.71	—	—	7.48	8.02	0.11	—
6	1.92	1.91	—	—	4.22	4.43	—	—	3.78	4.99	0.34	0.28
7	0.31	0.33	—	—	1.47	1.66	0.18	0.18	1.57	2.66	0.38	0.22
8	0.10	0.12	—	—	0.83	1.07	0.27	0.05	0.90	1.32	0.47	0.30
9	0.07	0.07	—	—	0.51	0.58	0.86	0.34	0.70	1.04	0.39	0.12
10	0.06	0.05	—	—	0.40	0.52	0.45	0.47	0.79	1.14	0.29	0.06
11	0.21	0.17	—	—	0.43	0.55	0.55	0.69	0.95	1.08	0.28	0.08
12	0.28	0.24	—	—	0.29	0.39	0.51	0.53	1.14	0.86	0.36	0.09
Monthly Means.	1.87	2.04	0.20	0.10	3.00	3.40	0.64	0.24	3.15	4.19	0.66	0.18

TABLE 7. Continued.

Hours of mean Batavia Time.	October.				November.				December.			
	N.	E.	S.	W.	N.	E.	S.	W.	N.	E.	S.	W.
1 a. m.	0.55	0.43	0.34	0.21	0.49	0.07	0.42	0.12	—	—	—	0.18
2	0.51	0.60	0.33	0.24	0.07	0.07	0.22	0.12	—	0.02	0.02	0.23
4	0.38	0.63	0.42	0.31	0.11	0.07	0.16	0.09	0.05	0.02	0.02	0.17
4	0.41	0.67	0.24	0.09	0.18	0.23	0.07	0.03	0.02	—	0.03	0.35
5	0.48	0.72	0.16	0.05	0.19	0.16	0.07	0.03	—	0.04	0.19	0.21
6	0.58	0.83	0.36	0.12	0.19	0.19	0.23	0.20	—	—	0.11	0.10
7	1.22	1.73	0.79	0.16	0.51	0.45	0.46	0.67	0.11	0.07	0.22	0.35
8	0.71	2.11	2.05	0.32	0.22	0.35	1.28	0.67	0.19	0.12	0.53	0.90
9	0.20	3.98	3.23	0.67	0.50	1.80	1.63	0.61	0.25	0.32	0.65	1.57
10	0.25	6.18	3.20	0.50	1.15	3.64	1.09	0.35	0.61	0.45	1.16	1.56
11	1.46	7.64	2.25	0.52	3.71	2.84	0.57	0.52	1.75	1.14	0.92	1.89
12	7.95	6.41	0.43	0.15	7.41	4.53	—	0.15	4.51	1.54	0.34	1.51
1 p. m.	9.68	7.85	0.24	0.10	9.24	4.53	—	0.23	4.96	1.71	0.10	1.81
2	11.27	8.43	0.05	0.12	9.96	4.18	—	—	5.92	1.70	0.04	1.24
3	11.95	9.57	0.12	0.09	8.51	4.29	0.29	0.44	4.67	1.66	0.24	1.62
4	9.53	9.51	0.14	0.11	6.42	3.43	0.63	0.77	3.65	1.07	0.38	1.37
5	6.96	7.33	0.05	0.02	3.65	1.84	0.15	0.32	1.99	0.51	0.43	0.94
6	2.75	3.88	0.69	0.57	1.04	0.84	0.67	0.54	0.39	0.29	0.48	0.70
7	0.85	1.21	0.78	0.24	0.20	0.09	0.55	0.55	0.26	—	0.39	0.57
8	0.59	0.64	0.41	0.13	0.08	0.05	0 97	0.59	—	0.15	0.52	0.26
9	0.34	0.47	0.66	0.10	0.13	0.23	0.46	0.26	0.08	0.19	0.25	0.18
10	0.34	0.39	0.68	0.25	0.04	0.01	0.48	0.21	0.02	0.08	0.29	0.28
11	0.38	0.36	0.44	0.15	0.08	0.07	0.40	0.28	—	0.04	0.19	0.18
12	0.28	0.27	0.24	0.33	0.05	0.02	0.39	0.14	—	—	0.05	0.28
Monthly Means.	2.90	3.41	0.76	0.23	2.26	1.42	0.47	0.33	1.23	0.46	0.31	0.77

TABLE 8. Daily means of the North and East components of the wind in 1888.

Velocity in kilometers per hour.

	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E
1	3.20	— 2.30	3.42	— 0.38	2.73	— 2.28	1.83	— 0.91	0.69	2.30	0.64	0 51	1 31	4.58	2.89	2.81	3.01	3.49	1.31	5.58	1.53	1.64	0 23	0.23
2	3.99	— 1.41	3.67	— 0.05	2.33	— 1.36	2.09	0 26	0.91	0.28	0.67	0 46	0.61	1.20	2.07	3 08	4.56	3 63	2.10	5.70	2.09	1.33	1.38	1.31
3	2.32	— 0.90	2.96	— 1.06	1 23	— 1.47	— 0.04	2.55	1.50	0.13	0.30	1.36	1 89	1 70	2.22	2.65	- 0.66	1.40	2 48	5 83	2.22	1.55	1.83	0.45
4	1.52	— 1.30	5.25	— 1.95	1 95	1.34	0.69	0.58	0 30	1.01	0.19	2.86	2.97	1.70	0 39	2.52	— 0.96	9.08	3.91	3.19	2.62	1.20	0 85	0.92
5	3.16	— 1.53	5.41	— 2.31	1.97	— 1.23	— 0.07	3 83	0.98	— 0 51	0.85	— 0.14	1 88	2.36	1.54	3.93	1.02	9.31	2.32	3.72	2.48	0.03	1.92	1.07
6	1.40	— 0.78	2.67	— 0.21	4.06	— 0.86	0.41	4.77	0 90	3 53	0.14	1.88	1.22	0.20	2.22	3 37	2.01	8 03	1.09	0.38	2.78	0.20	1.91	1 58
7	2.24	— 0 86	4.44	— 1.40	3.24	— 0.42	— 0.09	4.30	1.75	3 85	0 42	1.16	1.49	1.79	2.48	4.94	2 65	1.34	1.54	1.70	1 66	1.32	— 0.19	— 0.30
8	2.96	— 0.60	4.77	— 0.44	2.56	— 0.58	1.53	1.97	1.34	2.15	— 0.18	4 67	2.08	1 64	2.49	3.49	2.34	1.25	0.71	— 1.09	0.94	0.80	1.62	0.77
9	1.30	— 1.19	3.53	— 1.11	1.25	0.63	1 63	1.08	0.93	1.14	0.90	2.73	1.39	2.43	2.72	2 01	3.41	4.45	2.71	5 11	— 0.42	0.16	0.73	— 0.29
10	1.93	— 2 37	5.21	0.01	1.46	3 81	1.67	1.46	0.73	0.44	0.41	1.65	2.00	1.80	2.06	2.59	1.80	2.63	3.08	4.31	1.18	0.64	0.57	1.01
11	2.98	— 1.96	1.52	— 2.63	0.56	3.11	2.41	0.84	1.63	1.47	0.38	3.43	2.05	2 70	1.15	3 23	2.43	3 65	1.11	1.08	2.15	1.12	0 54	0.16
12	2.81	— 1.92	3.90	— 1.30	1.53	1,69	2 55	0.66	1.27	— 0.19	— 0.65	3.34	0 89	3.84	2.84	2.94	2.41	3 38	2 35	1.22	1.20	1.32	— 0.02	— 0.04
13	— 0.01	— 3.17	2.34	0.00	2 44	1.51	0.90	2.37	0.58	0.47	— 0.42	4 02	0 68	4.16	3.29	1.81	1.16	5.82	3 38	0.32	2.44	1.70	1.14	0.09
14	0.37	— 2.42	2.87	0.28	2.46	— 0.41	0.88	— 0.70	1.12	0.43	0.52	3 00	0.63	4.11	2.02	1.32	— 0.68	7.87	— 1.56	— 1.09	0.07	0.77	1.30	0.36
15	3.23	— 0.51	2.39	1.33	— 0.05	— 4.04	0.14	— 0.56	— 0.14	0.37	0.97	2.46	1.65	1.19	2 59	1.89	1.15	8.57	0 79	2 83	2 83	1.99	0 46	0.10
16	4.49	— 0.72	1.73	1.49	2.14	2.20	0.82	0.42	0 01	1.08	0.97	0.53	1.50	0.52	2.70	3.03	4.00	5.36	3.04	3.92	2.39	3.51	0.13	— 0.50
17	2.72	— 0.45	3.00	0.22	— 1.75	3.67	1 30	— 0.78	— 0.26	2.35	— 0.72	2.99	1.61	1.40	2 52	3.99	3.97	4 93	3 36	3.01	2.32	0.76	0.21	— 1.76
18	2.91	— 1.19	1.58	— 0.33	— 0.55	3.68	0.63	— 0.30	0.19	4.18	0.61	4 69	2 00	2.01	3.26	4.50	4.93	5 22	3 72	4.16	1.98	1.36	0.27	— 0.08
19	0.97	— 1.87	1.47	1.93	1.29	2.79	1.04	— 0.89	1.18	3.82	0.35	3.48	1.69	2.36	1.27	5.30	4.41	4 40	1 16	3.95	1.83	5.30	0.35	0.55
20	1.46	— 1.54	1.66	— 0.60	3.17	1.70	1.28	— 0.39	— 0.81	3 41	0.40	2.25	1.53	0.53	3.14	4.91	3.80	1.50	1.33	7.50	2 35	1.15	1.51	1.18
21	4.11	— 0.33	0.16	— 1.68	2.49	— 0.36	0.99	3.15	0.15	4.60	0.02	1.52	2.12	— 0.22	2.91	4.06	4.79	1.31	2 65	6.11	2.75	0.20	2.37	0.17
22	2.30	— 0.92	2.92	0.21	2.04	— 0.72	1 61	1.97	0 09	3.85	0.79	2.29	2.27	0.90	3.20	3.12	4.52	4.70	1.57	6 18	2.22	1 85	1.14	— 1.03
23	3.41	— 1.07	3.25	— 1.21	0.11	0 51	0.23	— 0.33	— 0.85	3.83	1.95	3.26	1.64	1.93	1.19	4.47	3.85	4 00	1 88	7.43	1.47	0.36	0.97	— 1.21
24	3.72	— 1.69	1.78	— 1.40	— 0.76	0.70	1.69	0.32	— 0.07	2.55	0.44	5.62	1.73	2 80	1.76	5 53	2.62	1.92	2 47	3.67	1.80	0.14	1.05	— 2 23
25	2.17	— 1.42	— 0.26	— 1.75	— 0.30	2.65	— 0.53	— 0.52	0.03	1.24	0.21	4.80	2.13	1 75	2.65	3.45	1.89	3.05	3.13	2.78	1.79	0.51	0.46	— 3.93
26	2.68	— 1.96	1.45	— 0.84	1.98	1.48	— 0.28	1.66	— 0.20	0.82	0.73	4.69	1.62	1.86	2,55	2.83	0.95	3 34	2.47	0.76	1.92	1.17	1.03	— 1.37
27	2.69	— 1.70	2.77	— 2.38	1.78	0 29	0.72	3.56	0.54	2.26	— 0.15	4.42	1.07	1.56	3.23	2.41	1.28	1.33	2,45	1.40	0.49	1.03	2.04	— 2.46
28	2.42	— 0.75	2.98	— 2.19	1.52	— 0.92	0.62	2.70	0.49	1.26	— 1.14	5.34	1.83	1.90	3.62	3.14	1.59	0.63	2 51	3.29	2.17	1.58	1.54	— 0.10
29	3.44	— 0.55	3.51	— 1.84	1.12	— 2.42	0.78	2 12	0.63	0.68	1.32	1.64	2.16	2.05	2.89	1.51	3.41	1 04	2 74	2 18	1.14	— 0.89	0.94	— 0.75
30	3.30	— 2.37			0.50	— 1.19	1.61	2.35	0.35	2.53	1.20	2 89	2.07	2.19	0.83	— 0.19	2.89	3.72	2 44	1.70	1.15	0.15	0.84	— 0.66
31	2.84	— 1.54			3.29	0.02			— 0.02	— 0.09			2.26	1.34	2.51	2.74			2.06	1.66			— 0.84	— 2.74
Means.	2.55	— 1.41	2.84	— 0.74	1.54	0.44	0.97	1.27	0.51	1.78	0.40	2.79	1.68	1.94	2.36	3.16	2.49	4.01	2.14	3.18	1.78	1.09	0.91	— 0.31

TABLE 9. Mean Electrical Potential of the Atmosphere in 1888.

In Volts.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	13.5	13.6	11.7	10.0	11.9	8.6	6.5	9.6	9.8	11.3	11.6	11.6	10.81
2	12.8	13.0	13.1	9.8	13.1	9.0	6.2	8.7	9.6	9.8	9.7	11.1	10.49
3	10.0	13.3	12.9	9.2	13.0	8.7	6.3	8.2	8.7	9.0	9.1	9.0	9.78
4	8.9	12.4	12.6	8.6	11.7	7.5	5.9	8.0	8.6	8.6	8.2	8.8	9.15
5	9.7	10.2	11.7	9.4	11.0	7.8	6.0	9.1	8.3	7.7	8.8	8.5	9.02
6	8.4	11.7	12.3	10.4	11.3	8.1	5.9	8.3	8.4	9.3	8.7	9.3	9.34
7	11.6	13.0	14.9	12.9	13.7	12.1	7.1	9.2	10.5	9.3	8.5	11.6	11.20
8	9.7	8.7	9.6	9.3	9.6	8.1	6.0	5.5	5.1	2.9	2.1	4.5	6.76
9	7.8	6.5	6.3	6.3	6.2	5.1	3.6	0.2	1.6	0.4	1.0	2.2	3.93
10	5.5	5.4	3.8	3.8	3.6	2.9	1.6	— 0.7	0.7	0.6	0.8	1.9	2.49
11	4.1	4.5	3.7	3.2	3.1	2.6	1.5	0.5	0.6	0.9	0.9	2.2	2.32
12	3.8	3.1	2.9	2.6	1.8	2.3	1.1	0.0	0.0	— 0.5	0.7	2.2	1.67
1 p. m.	3.2	3.8	2.4	2.8	2.8	2.5	0.9	— 0.5	— 1.2	0.9	0.6	6.1	2.03
2	4.1	3.7	3.7	1.3	2.5	2.7	0.6	— 1.7	— 0.7	— 0.7	0.1	2.3	1.49
3	5.0	4.6	3.6	3.7	4.3	2.0	— 0.4	— 2.6	— 2.1	— 0.9	1.4	5.5	2.01
4	4.8	6.4	4.7	4.5	3.4	2.6	0.1	— 3.0	— 1.2	— 1.5	2.0	5.2	2.33
5	6.1	9.2	6.2	6.8	5.4	3.5	0.1	0.3	1.1	1.3	3.4	4.4	3.93
6	9.3	9.5	7.9	6.4	8.1	4.7	1.8	2.7	3.1	3.2	6.2	6.9	5.82
7	11.4	10.7	9.3	8.5	9.8	8.0	3.9	6.0	5.3	5.8	8.5	9.9	8.09
8	10.7	15.2	10.6	9.4	10.5	9.1	6.4	7.1	8.4	9.1	10.0	10.4	9.74
9	12.2	14.6	8.7	11.1	10.2	9.1	7.7	8.6	10.1	13.1	11.8	10.4	10.63
10	14.5	14.6	9.8	9.4	11.7	9.3	7.6	8.8	10.8	13.0	12.0	10.5	11.00
11	15.6	15.0	9.8	10.4	10.9	9.2	7.6	9.2	10.5	12.3	10.8	11.6	11.08
12	12.8	14.6	9.8	10.8	11.0	8.4	7.0	9.3	10.2	11.0	11.6	10.0	10.54
Monthly Means.	8.98	9.89	8.42	7.53	8.36	6.41	4.21	4.59	5.26	5.66	6.19	7.34	6.90

TABLE 9A. Mean Electrical Potential of the Atmosphere, on Non-Rainy Hours in 1888.

In Volts.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	15.0	15.0	12.2	10.1	11.9	9.3	6.5	9.6	10.1	11.3	11.9	11.6	11.21
2	14.4	13.5	13.5	9.8	13.1	9.0	6.2	8.7	9.6	10.1	10.1	11.8	10.82
3	10.5	13.9	12.9	9.2	13.0	8.9	6.3	8.2	8.7	9.0	9.2	10.1	9.99
4	10.4	12.6	12.6	8.6	11.7	7.7	5.9	8.0	8.2	8.6	8.2	9.3	9.32
5	10.1	11.9	11.7	9.4	11.0	7.8	6.0	8.6	8.3	7.7	8.8	8.6	9.16
6	9.0	13.0	12.7	10.6	11.3	8.4	5.9	8.2	8.4	9.3	8.7	9.3	9.57
7	14.9	14.6	15.3	13.2	13.7	12.1	7.1	9.2	10.5	9.3	8.5	11.6	11.67
8	12.4	9.6	9.6	9.4	9.6	8.1	6.0	5.4	4.8	2.9	2.1	4.5	7.03
9	9.4	7.8	6.3	6.3	6.2	5.1	3.6	0.2	1.6	0.4	1.0	2 2	4.18
10	5.0	5.5	3.8	3.8	3.6	2.9	1.6	— 0.7	0.7	0.6	0.8	1.9	2.46
11	4.2	4.6	3.7	3.2	3.1	2.6	1.5	0.5	0.6	0.9	0.9	2.1	2.33
12	3.7	3.9	2.8	2.4	2.4	2.3	1.1	0.0	0.0	— 0.6	0.6	2.2	1.73
1 p. m.	3.1	4.0	2.4	2.8	2.7	2.5	0.9	— 0.5	— 1.2	0.8	0.6	4.6	1.89
2	4.3	3.9	3.7	2.1	2.3	2.7	0.6	— 1.7	— 1.2	— 0.3	0.1	3.4	1.66
3	5.2	4.3	3.7	3.7	3.5	2.0	— 0.4	— 2.6	— 1.9	— 1.0	0.9	5.6	1.92
4	4.6	5.6	4.7	5.6	3.4	2.6	0.1	— 3.0	— 1.3	— 1.5	2.0	4.8	2.30
5	6.1	9.3	6.7	6.8	5.2	3.3	0.1	— 0.3	1.1	1.3	3.5	5.3	4.03
6	9.3	9.5	8.2	5.9	8.1	4.7	1.8	2.7	2.5	3.2	6.2	7.0	5.76
7	13.2	11.2	10.0	8.5	10.3	8.0	3.9	6.0	5.3	5.8	8.5	12.0	8.56
8	13.3	15.6	12.1	9.6	10.6	9.1	6.4	7.1	8.3	9.1	10.0	11.9	10.26
9	11.9	15.4	8.7	11.0	10.2	9.1	7.7	8.3	9.9	12.5	11.8	11.4	10.66
10	15.8	15.1	10.1	10.6	11.7	9.7	7.6	9.2	10.8	13.0	12.0	10.8	11.37
11	15.1	15.0	9.9	10.7	10.5	9.1	7.6	10.0	10.5	12.3	11.4	11.8	11.16
12	15.0	15.5	10.0	10.8	11.3	8.6	7.0	9.4	10.5	11.0	11.6	10.2	10.91
Monthly Means.	9.83	10.43	8.64	7.67	8.35	6.48	4.21	4.60	5.20	5.65	6.23	7.67	7.08

TABLE 10. Absolute maxima and minima 1888.

	Barometric pressure in millimetres.		Temperature of the air. Centesimal degrees.		Relative humidity of the air. Saturation = 1000.		Tension of the atmospheric vapour in millimeters.		Velocity of the wind. k. p. h.
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Maximum.
January	762.65	756.03	29.1	21.9	991	656	23.13	17.80	17.7
February	763.22	756.15	30.0	21.7	983	636	23.08	17.93	16.1
March	762.01	756.38	31.7	22.3	973	586	23.70	18.40	16.1
April	761.66	755.06	31.9	22.3	974	567	23.85	18.50	16.1
May	760.79	755.63	31.7	22.2	973	551	24.12	18.69	20.9
June	761.08	755.68	31.7	22.3	966	472	24.46	16.35	17.7
July	762.09	756.39	31.3	19.8	955	388	22.14	12.17	16.1
August	762.58	755.98	33.4	21.0	956	304	22.42	12.14	20.9
September	762.88	755.76	32.2	20.1	957	398	22.85	14.53	27.4
October	762.33	755.80	33.4	21.9	973	361	23.15	13.37	28.2
November	761.49	755.05	33.9	22.7	965	435	23.21	16.22	22.5
December	761.40	756.12	32.0	22.6	974	464	23.87	16.22	13.7
Year	763.22	755.05	33.9	19.8	991	304	24.46	14.53	28.2

TABLE 11. Maxima and minima of daily means in 1888.

	Barometric pressure in millimetres.		Temperature of the air. Centesimal degrees.		Relative humidity of the air. Saturation = 1000.		Tension of the atmospheric vapour in millimetres.		Velocity of the wind in k. p. h.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
January	760.76	757.57	25.96	23.94	923	846	21.52	19.74	5.29	1.64
February	761.64	758.28	26.11	23.95	944	843	21.71	19.98	6.00	2.57
March	760.66	758.19	26.87	24.98	899	791	22.09	20.14	6.13	2.77
April	759.68	756.76	27.44	24.61	904	811	22.18	20.74	5.57	1.03
May	759.32	757.48	27.39	23.82	949	775	22.35	20.46	4.93	0.30
June	759.98	757.72	27.21	25.51	892	764	22.97	19.47	5.97	0.83
July	760.73	758.33	26.71	24.65	806	698	20.21	15.99	4.87	1.73
August	761.11	757.73	27.15	25.58	822	657	20.53	16.02	7.20	3.92
September	761.32	757.67	27.67	25.09	894	662	21.30	15.37	10.01	3.17
October	760.72	757.78	27.86	25.17	849	652	21.48	17.15	9.05	2.95
November	760.26	757.40	28.20	25.76	869	716	21.91	18.71	7.10	1.37
December	760.02	758.17	27.95	24.72	915	736	22.28	19.25	4.32	0.50
Year	761.64	756.76	28.20	23.82	949	652	22.97	15.37	10.01	0.30

TABLE 12. Maxima and minima of oscillation or range in 1888.

	Barometric pressure in millimetres.		Temperature of the air. Centesimal degrees.		Relative humidity of the air. Saturation = 1000.		Tension of the atmospheric vapour in millimetres.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
January	4.24	2.12	6.8	2.4	309	135	4.13	1.59
February	4.32	2.06	6.9	2.3	320	61	4.09	1.85
March	4.05	2.63	8.9	3.1	370	173	3.99	1.65
April	4.30	2.47	8.5	4.4	390	204	4.62	1.90
May	3.42	2.03	8.8	1.4	397	50	4.37	1.16
June	3.33	2.06	9.3	5.1	457	210	5.27	1.27
July	3.81	2.35	10.5	6.0	484	268	6.69	2.01
August	3.91	2.43	11.9	5.8	595	264	7.02	2.08
September	4.10	2.45	10.9	4.7	491	238	6.41	2.29
October	4.22	2.77	11.3	4.7	561	242	7.66	2.15
November	3.95	2.48	10.2	5.2	487	214	5.69	1.21
December	4.39	2.25	8.6	3.9	483	166	4.79	1.60
Year	4.39	2.03	11.9	1.4	595	50	7.66	1.16

TABLE 13. Mean daily oscillation or range in 1888.

	Barometric pressure in millimetres.	Temperature of the air Centesimal degrees.	Relative humidity of the air. Saturation = 1000.	Tension of the atmospheric vapour in millimetres.
January	2.84	4.41	210	2.62
February	3.04	5.23	241	2.83
March	3.28	6.36	277	2.72
April	3.15	6.68	295	2.95
May	2.86	6.74	294	2.93
June	2.83	7.26	331	3.04
July	2.90	7.88	365	3.59
August	3.19	8.01	377	3.68
September	3.26	7.67	379	4.10
October	3.32	8.23	392	4.12
November	3.29	7.41	339	3.25
December	3.16	6.33	296	2.87
Year	3.09	6.85	316	3.23

TABLE 14. Deviations of the mean monthly and annual values in 1888 from the average values for the years 1866—1888.

	Barometric pressure in millimetres.	Temperature of the air in centesimal degrees.	Relative Humidity. Saturation = 1000.	Tension of atmospheric vapour in millimetres.	Cloudiness.
January	0.74	— 0.44	13	— 0.20	0.92
February	0.97	— 0.15	— 3	— 0.27	— 0.02
March	0.51	0.20	- 13	— 0.09	— 0.46
April	0.27	— 0.10	6	— 0.01	0.33
May	0.01	— 0.08	4	— 0.03	0.13
Juny	0.10	0.52	— 16	0.17	— 1.16
July	0.43	0.26	— 41	— 0.74	— 0.55
August	0.57	0.43	— 28	— 0.28	— 0.32
September	0.06	0.44	- 23	— 0.11	0.15
October	0.24	0.66	— 34	— 0.19	— 1.35
November	0.54	0.71	— 36	- 0.14	— 1.90
December	0.51	0.75	— 11	0.60	— 0.42
Year	0.41	0.27	— 15	— 0.11	— 0.39

N. B. The average values of the cloudiness have been deduced from the nine-yearly series 1880—1888.

RESULTS OF MAGNETICAL OBSERVATIONS.

TABLE 15. Values of the Zero-line in absolute measure.

1888.	Adie's Magnetograph.			Wild's Magnetometers.		
	Easterly Declination.	Horizontal Force in c. g. s.	Vertical Force in c. g. s.	Easterly Declination.	Horizontal Force in c. g. s.	Vertical Force in c. g. s.
January	1° — 1′.00	0.36717	0.19845	1° — 51′.12	0.37141	0.19987
February	1° — 0′.05	0.36720	0.19798	1° — 49′.50 R	0.37171	0.19978
March	1° — 0′.02	0.36743	0.19775	1° — 49′.21	0.37062 R	0.19991
April	1° — 0′.44	0.36753	0.19765	1° — 49′.97	0.37093	R
May	1° — 0′.50	0.36759	0.19714	1° — 50′.00	0.37135	0.19979
June	1° — 0′.64	0.36771	0.19705	1° — 49′.11	0.37193	—
July	1° — 1′.31	0.36777	0.19697	1° — 49′.08	0.37171 R	—
August	1° — 1′.49	0.36786	0.19704	1° — 48′.88	0.37202	0.20072
September	1° — 1′.23	0.36797	0.19681	1° — 48′.26	R	R
October	1° — 1′.31	0.36804	0.19669	1° — 48′.27	0.37105	0.20162
November	1° — 1′.21	0.36816	0.19673	1° — 48′.03	0.37150	0.20212
December	1° — 1′.22	0.36816	0.19699	1° — 47′.74	0.37186	0.20264

N. B. The letter R denotes that the instrument has been readjusted.

TABLE 16. Monthly means in absolute measure.

Minutes of arc and c. g. s. unity.

1888.	E. Declination. 1°40′.00 +	Horizontal Force. 0.36900 +	Vertical Force. 0.19700 +	Total Force. 0.41800 +	S. Inclination. 28°0′.00 +
January	8′.46	200.9	335.8	365.3	22′.24
February	8′.54	199.3	350.4	370.8	23′.35
March	8′.36	200.7	377.0	384.7	25′.20
April	8′.47	195.8	387.6	385.4	26′.15
May	8′.17	185.2	358.1	362.1	24′.45
June	7′.33	195.3	354.2	369.1	23′.77
July	7′.54	197.9	367.8	377.9	24′.65
August	7′.35	194.0	383.6	382.0	25′.93
September	6′.57	192.6	373.2	375.8	25′.24
October	6′.35	185.7	368.8	367.6	25′.19
November	5′.92	186.4	382.7	374.8	26′.16
December	5′.52	188.0	404.8	386.8	27′.68
Year	7.38	193.5	370.3	375.2	25.00

TABLE 17. Mean diurnal variation of Easterly Declination for each month of the year 1888.

Uncorrected for disturbances; minutes of arc.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 0.02	— 0.08	— 0.03	0.14	0.03	0.01	0.00	— 0.15	0.05	— 0.10	0.13	0.20	— 0.04
2	— 0.03	0.00	— 0.04	0.19	0.25	0.21	0.13	— 0.05	0.09	0.09	— 0.10	— 0.12	0.04
3	— 0.28	— 0.08	— 0.14	0.30	0.27	0.19	0.18	0.10	0.11	— 0.13	— 0.19	0.21	0.01
4	— 0.32	— 0.10	— 0.20	0.22	0.35	0.38	0.46	0.15	0.19	— 0.15	0.18	— 0.36	0.04
5	— 0.54	— 0.16	— 0.31	0.15	0.35	0.44	0.43	0.32	0.20	0.25	— 0.35	— 0.53	— 0.02
6	— 1.25	— 0.41	— 0.35	0.21	0.61	0.49	0.59	0.54	0.63	— 0.24	0.65	— 1.12	— 0.08
7	— 2.19	— 1.38	— 0.80	0.19	0.83	1.08	0.97	0.99	0.59	— 1.01	— 1.56	— 1.87	— 0.34
8	— 2.10	— 2.78	— 1.50	— 0.79	0.16	0.54	0.46	0.31	0.51	— 1.84	2.01	— 1.88	— 0.99
9	— 1.52	— 3.05	— 1.40	— 1.46	— 0.64	— 0.28	— 0.35	— 0.53	— 1.46	— 2.16	— 2.00	— 1.67	— 1.37
10	— 1.03	— 2.49	— 0.96	— 1.23	— 0.82	— 0.75	— 0.63	— 0.91	— 1.63	— 1.79	— 1.58	— 1.16	— 1.25
11	— 0.45	— 1.21	— 0.30	— 0.66	— 0.96	— 0.90	— 0.79	— 0.96	— 1.45	— 0.69	— 0.54	— 0.56	— 0.79
12	0.39	0.59	0.32	— 0.31	— 0.80	— 0.59	— 0.53	— 0.83	— 0.82	0.69	0.70	0.43	— 0.06
1 p. m.	1.34	1.99	0.79	— 0.16	— 0.33	— 0.27	— 0.28	— 0.51	— 0.32	1.62	1.47	1.33	0.56
2	1.63	2.36	1.11	0.36	0.27	0.07	0.14	— 0.05	0.44	1.76	1.81	1.73	0.97
3	1.56	2.18	1.22	0.79	0.77	0.35	0.35	0.57	1.03	1.47	1.81	1.69	1.15
4	1.06	1.63	0.97	1.15	0.97	0.40	0.47	1.01	1.12	0.99	1.34	1.54	1.06
5	0.77	0.99	0.73	0.96	0.61	0.29	0.35	0.83	0.83	0.65	0.93	1.21	0.76
6	0.70	0.79	0.52	0.52	0.03	— 0.07	— 0.11	0.15	0.47	0.58	0.70	0.75	0.42
7	0.69	0.59	0.34	0.20	— 0.22	— 0.20	— 0.20	0.01	0.24	0.42	0.40	0.53	0.23
8	0.63	0.41	0.15	— 0.01	— 0.40	— 0.20	0.31	— 0.10	0.22	0.30	0.33	0.37	0.12
9	0.41	0.26	0.05	— 0.20	— 0.43	— 0.37	— 0.37	— 0.23	0.07	0.16	0.18	0.25	— 0.02
10	0.25	0.05	— 0.06	— 0.25	— 0.47	— 0.39	— 0.33	— 0.26	— 0.05	0.00	0.00	0.04	— 0.12
11	0.18	— 0.03	— 0.10	— 0.19	— 0.38	— 0.27	— 0.37	— 0.28	— 0.01	— 0.04	— 0.19	— 0.08	— 0.14
12	0.02	— 0.05	0.02	— 0.09	— 0.09	— 0.18	— 0.17	— 0.21	0.01	— 0.08	— 0.11	— 0.11	0.08
Total amount of variation.	19.36	23.66	12.41	10.73	11.04	8.92	8.97	10.05	12.54	17.21	19.26	19.74	10.66

TABLE 18. Mean diurnal variation of Horizontal Force for each month of the year 1888.

Uncorrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 8.9	— 9.3	— 8.5	— 9.2	— 6.4	— 8.0	— 8.6	— 9.2	— 11.3	— 8.9	— 5.0	— 4.4	— 8.2
2	— 6.5	— 9.9	— 8.5	— 8.6	— 5.0	— 4.9	— 7.4	— 6.5	— 7.3	— 7.4	— 5.0	— 6.2	— 6.9
3	— 5.4	— 7.4	— 4.9	— 5.8	— 3.3	— 4.4	— 6.7	— 5.0	— 4.8	— 3.9	— 1.9	— 4.5	— 4.8
4	— 6.4	— 6.1	— 4.8	— 2.5	— 2.0	— 3.3	— 6.3	— 3.8	— 4.3	— 3.2	— 0.4	— 2.7	— 3.8
5	— 4.1	— 6.0	— 3.7	— 1.4	— 1.3	— 1.7	— 3.7	— 2.4	— 3.0	— 2.0	0.5	— 1.2	— 2.5
6	— 0.4	— 4.0	— 2.2	1.0	2.0	1.1	— 0.6	— 0.3	— 0.6	— 1.2	2.4	2.2	— 0.1
7	5.0	— 1.6	1.7	7.6	8.4	7.2	6.1	8.2	7.8	5.3	6.5	6.5	5.7
8	11.3	5.8	10.1	15.9	14.5	13.5	13.0	17.3	17.6	12.1	12.7	9.4	12.8
9	19.1	17.3	18.6	24.0	20.9	17.8	20.0	23.9	25.4	19.3	18.9	17.0	20.2
10	25.8	25.6	24.4	30.2	25.1	21.2	26.0	28.9	30.9	23.7	23.4	18.8	25.3
11	27.9	33.8	31.1	36.0	26.9	24.4	28.5	27.5	33.3	23.6	22.0	18.8	27.8
12	22.1	34.5	32.1	31.3	20.6	21.6	22.9	22.5	30.4	22.4	15.4	14.0	24.1
1 p. m.	17.4	23.7	24.0	19.6	11.9	15.2	14.7	15.4	19.6	15.4	8.7	6.9	16.0
2	10.5	14.8	8.9	5.5	4.1	6.7	5.8	5.7	5.8	4.2	1.0	1.2	6.2
3	1.3	3.5	— 4.2	— 5.3	— 6.2	— 2.0	— 3.5	— 3.2	— 7.1	— 2.2	— 6.9	— 1.9	— 3.2
4	— 5.7	— 5.9	— 10.1	— 14.8	— 11.5	— 8.0	— 7.8	— 11.0	— 12.8	— 6.3	— 10.7	— 4.3	— 9.1
5	— 10.4	— 11.4	— 11.3	— 17.7	— 13.2	— 11.4	— 9.4	— 15.2	— 14.8	— 9.4	— 10.9	— 5.7	— 11.7
6	— 14.9	— 12.6	— 11.7	— 14.7	— 10.3	— 12.7	— 11.0	— 14.3	— 13.4	— 12.0	— 12.3	— 8.4	— 12.4
7	— 13.5	— 15.5	— 14.0	— 15.9	— 11.3	— 12.4	— 12.9	— 14.7	— 14.4	— 12.6	— 11.8	— 9.6	— 13.2
8	— 13.1	— 16.9	— 12.6	— 18.0	— 14.4	— 12.2	— 12.2	— 14.8	— 15.3	— 12.1	— 11.8	— 9.4	— 13.6
9	— 15.9	— 16.3	— 13.9	— 16.3	— 13.5	— 12.3	— 11.7	— 12.1	— 15.9	— 13.6	— 11.8	— 10.6	— 13.7
10	— 15.2	— 13.3	— 15.6	— 15.0	— 13.1	— 13.2	— 12.4	— 13.2	— 14.7	— 11.2	— 9.5	— 8.6	— 12.9
11	— 11.6	— 11.3	— 13.2	— 13.7	— 11.7	— 12.4	— 12.2	— 13.5	— 15.9	— 11.2	— 6.9	— 10.6	— 12.0
12	— 9.0	— 11.3	— 11.0	— 11.5	— 10.5	— 10.7	— 10.9	— 10.8	— 14.2	— 9.2	— 7.0	— 7.7	— 10.3
Total amount of variation.	281.4	317.8	301.1	341.5	268.1	258.3	274.3	299.4	340.6	252.4	223.4	190.6	276.5

TABLE 19. Mean diurnal variation of Vertical Force for each month of the year 1888.

Uncorrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	6.8	6.5	5.1	3.3	0.5	1.8	2.3	1.0	3.6	4.8	2.7	4.8	3.6
2	4.9	5.6	5.2	3.1	— 0.7	— 0.3	1.6	— 0.2	1.3	4.1	2.5	5.7	2.8
3	4.4	4.5	2.9	1.5	— 1.5	— 0.9	0.5	— 1.6	0.0	2.1	0.7	4.2	1.4
4	5.3	3.0	2.6	0.3	— 1.7	— 1.1	0.5	— 1.5	— 0.3	1.6	0.1	3.3	1.0
5	3.8	3.6	2.0	1.2	— 0.7	— 0.8	— 0.3	— 2.1	— 0.5	1.3	0.1	2.9	0.9
6	6.4	3.5	1.2	— 2.0	— 4.0	— 3.5	— 2.9	— 4.5	— 3.6	1.6	2.0	4.5	— 0.1
7	4.8	10.0	3.9	— 1.8	— 5.6	— 7.7	— 6.8	— 7.9	— 1.9	6.0	6.1	4.0	0.3
8	— 5.3	9.2	0.4	— 1.0	— 3.0	— 6.1	— 7.5	— 7.8	0.9	6.6	6.6	0.9	— 0.5
9	— 15.8	— 7.9	— 10.3	— 8.5	— 5.7	— 6.4	— 10.5	— 9.0	— 3.9	— 2.6	— 0.7	— 7.8	— 7.4
10	— 22.9	— 23.2	— 19.3	— 18.6	— 9.4	— 9.1	— 13.3	— 11.9	— 11.6	— 14.3	— 9.7	— 13.2	— 14.7
11	— 26.3	— 38.8	— 26.6	— 25.1	— 11.5	— 13.0	— 14.1	— 9.9	— 17.8	— 24.7	— 18.8	— 16.3	— 20.2
12	— 27.4	— 44.1	— 28.1	— 21.6	— 11.5	— 13.2	— 12.2	— 6.3	— 19.2	— 30.1	— 20.1	— 18.1	— 21.0
1 p. m.	— 23.7	— 33.5	— 21.4	— 13.8	— 8.9	— 10.3	— 7.8	— 3.2	— 13.1	— 22.8	— 17.1	— 14.8	— 15.8
2	— 14.3	— 17.6	— 11.0	— 7.3	— 6.0	— 7.6	— 4.1	— 0.5	— 7.3	— 10.7	— 10.9	— 10.3	— 8.9
3	— 1.3	— 2.2	0.9	— 1.0	— 2.9	— 3.4	0.9	0.4	— 0.6	— 0.6	— 2.5	— 6.9	— 1.6
4	8.1	10.4	6.8	6.6	2.2	3.1	2.8	2.3	4.9	6.0	4.0	— 3.0	4.6
5	12.0	15.4	8.9	11.2	8.2	10.3	7.6	7.4	8.9	8.2	7.0	2.6	9.0
6	13.6	14.4	10.0	11.8	11.0	13.6	12.5	10.9	9.2	9.8	8.4	7.4	11.1
7	11.5	15.6	11.6	12.2	10.2	11.8	12.3	10.6	9.6	10.3	7.7	8.7	11.0
8	11.1	15.8	12.1	13.2	11.5	10.9	10.7	9.8	9.6	9.5	7.5	8.2	10.9
9	12.9	15.3	12.1	12.4	10.2	10.5	9.2	7.5	9.5	10.1	7.5	9.3	10.6
10	12.6	12.2	12.2	10.2	8.8	8.9	8.3	7.0	8.4	8.8	6.5	8.2	9.4
11	10.4	11.3	9.4	8.8	6.5	6.9	6.7	6.0	8.1	8.0	4.7	9.0	8.0
12	7.3	10.3	8.8	6.0	4.0	4.8	4.6	3.6	6.4	6.3	4.6	6.9	6.2
Total amount of variation.	272.9	333.9	232.8	202.5	146.2	166.0	160.0	132.9	160.2	210.9	158.5	181.0	181.0

TABLE 20. Mean diurnal variation of Southerly Inclination for each month of the year 1888.

Uncorrected for disturbances, minutes of arc.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	0.′83	0.′82	0.′69	0.′59	0.28	0.′44	0.′50	0.′43	0.′70	0.′69	0.′39	0.′52	0.′58
2	0.60	0.78	0.70	0.55	0.14	0.17	0.40	0.24	0.38	0.58	0.38	0.65	0.47
3	0.52	0.61	0.40	0.33	0.02	0.11	0.29	0.08	0.19	0.31	0.13	0.48	0.28
4	0.63	0.45	0.37	0.12	— 0.05	0.05	0.28	0.04	0.15	0.24	0.03	0.35	0.22
5	0.43	0.49	0.29	0.14	0.00	0.01	0.12	— 0.05	0.08	0.17	— 0.01	0.26	0.16
6	0.47	0.40	0.17	— 0.18	— 0.37	— 0.29	— 0.19	— 0.31	— 0.23	0.16	0.05	0.24	— 0.01
7	0.15	0.78	0.21	— 0.42	— 0.73	— 0.83	— 0.73	— 0.88	— 0.44	0.23	0.19	0.04	— 0.20
8	— 0.82	0.43	— 0.36	— 0.69	— 0.78	— 0.96	— 1.04	— 1.23	— 0.62	0.01	— 0.02	— 0.30	— 0.53
9	— 1.88	— 1.24	— 1.46	— 1.54	— 1.22	— 1.15	— 1.53	— 1.57	— 1.26	— 0.93	— 0.78	— 1.21	— 1.31
10	— 2.64	— 2.66	— 2.33	— 2.50	— 1.65	— 1.47	— 1.96	— 1.97	— 2.03	— 1.94	— 1.60	— 1.67	— 2.04
11	— 2.97	— 4.10	— 3.11	— 3.20	— 1.87	— 1.87	— 2.12	— 1.77	— 2.57	— 2.68	— 2.20	— 1.89	— 2.53
12	— 2.82	— 4.50	— 3.26	— 2.76	— 1.63	— 1.78	— 1.76	— 1.32	— 2.55	— 3.02	— 2.04	— 1.83	— 2.44
1 p. m.	— 2.38	— 3.32	— 2.46	— 1.75	— 1.10	— 1.32	— 1.13	— 0.82	— 1.70	— 2.23	— 1.56	— 1.32	— 1.75
2	— 1.43	— 1.84	— 1.13	— 0.74	— 0.59	— 0.80	0.52	— 0.25	— 0.75	— 0.93	— 0.82	— 0.78	— 0.88
3	— 0.15	— 0.30	0.23	0.13	0.03	— 0.16	0.20	0.16	0.23	0.05	0.09	— 0.42	0.01
4	0.80	0.97	0.88	1.05	0.60	0.54	0.50	0.59	0.85	0.68	0.70	— 0.04	0.68
5	1.26	1.54	1.08	1.49	1.10	1.18	0.91	1.12	1.21	0.95	0.93	0.41	1.10
6	1.55	1.52	1.17	1.42	1.18	1.47	1.32	1.34	1.18	1.17	1.08	0.86	1.28
7	1.35	1.72	1.37	1.49	1.17	1.33	1.38	1.33	1.25	1.23	1.01	1.00	1.30
8	1.30	1.78	1.36	1.64	1.38	1.26	1.24	1.28	1.28	1.15	1.00	0.96	1.31
9	1.54	1.73	1.41	1.52	1.25	1.23	1.11	1.01	1.30	1.25	1.00	1.08	1.29
10	1.49	1.39	1.48	1.31	1.13	1.15	1.08	1.02	1.17	1.07	0.84	0.93	1.17
11	1.19	1.24	1.19	1.16	0.92	0.98	0.95	0.96	1.20	1.01	0.61	1.06	1.04
12	0.87	1.17	1.06	0.88	0.69	0.76	0.75	0.68	1.01	0.81	0.60	0.80	0.84
Total amount of variation.	30.07	35.78	28.17	27.60	19.88	21.31	22.01	20.45	24.33	23.49	18.06	19.10	23.42

TABLE 21. Mean diurnal variation of Total Force for each month of the year 1888.

Uncorrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 4.6	— 5.1	— 5.0	— 6.5	— 5.4	— 6.2	— 6.5	— 7.7	— 8.2	— 5.5	— 3.1	— 1.6	— 5.5
2	— 3.4	— 6.0	— 5.0	— 6.0	— 4.7	— 4.4	— 5.8	— 5.8	— 5.8	— 4.5	— 3.2	— 2.8	— 4.7
3	— 2.7	— 4.3	— 2.9	— 4.3	— 3.6	— 4.3	— 5.7	— 5.2	— 4.2	— 2.4	— 1.3	— 2.0	— 3.6
4	— 3.1	— 3.9	— 3.0	— 2.0	— 2.6	— 3.4	— 5.3	— 4.1	— 3.9	— 2.0	— 0.3	— 0.8	— 2.9
5	— 1.8	— 3.5	— 2.3	— 0.6	— 1.5	— 1.9	— 3.4	— 3.2	— 2.9	— 1.1	0.5	0.3	— 1.8
6	2.7	— 1.8	— 1.3	0.0	— 0.1	— 0.7	— 1.9	— 2.4	— 2.3	— 0.3	3.1	4.0	— 0.1
7	6.7	3.4	3.4	5.9	4.7	2.7	2.1	3.4	5.9	7.5	8.7	7.6	5.2
8	7.4	9.5	9.1	13.6	11.3	9.0	7.8	11.5	15.9	13.8	14.4	8.7	11.0
9	9.3	11.5	11.5	17.1	15.7	12.6	12.6	16.7	20.5	15.8	16.3	11.2	14.3
10	11.8	11.5	12.3	17.8	17.6	14.3	16.5	19.7	21.7	14.1	16.0	10.2	15.3
11	12.0	11.3	14.7	19.8	18.2	15.3	18.3	19.4	20.8	9.0	10.5	8.8	14.8
12	6.4	9.4	14.9	17.3	12.6	12.7	14.3	16.8	17.6	5.4	4.0	3.7	11.2
1 p. m.	4.0	5.0	11.0	10.7	6.2	8.5	9.2	12.0	11.0	2.7	— 0.4	— 1.0	6.6
2	2.4	4.7	2.6	1.4	0.7	2.3	3.1	4.7	1.6	— 1.4	— 4.3	— 3.9	1.2
3	0.5	2.1	— 3.3	— 5.1	— 6.8	— 3.4	— 2.7	— 2.7	— 6.5	— 2.2	— 7.2	— 5.0	— 3.6
4	— 1.2	— 0.2	— 5.6	— 9.8	— 9.1	— 5.5	— 5.6	— 8.6	— 8.9	— 2.7	— 7.5	— 5.2	— 5.8
5	— 3.4	— 2.7	— 5.7	— 10.2	— 7.7	— 5.1	— 4.7	— 9.9	— 8.8	— 4.4	— 6.2	— 3.8	— 6.0
6	— 6.6	— 4.2	— 5.5	— 7.3	— 3.8	— 4.7	— 3.8	— 7.4	— 7.4	— 5.9	— 6.8	— 3.9	— 5.6
7	— 6.4	— 6.2	— 6.8	— 8.1	— 5.1	— 5.3	— 5.5	— 7.9	— 8.1	— 6.2	— 6.7	— 4.3	— 6.4
8	— 6.2	— 7.3	— 5.3	— 9.5	— 7.2	— 5.5	— 5.7	— 8.4	— 8.9	— 6.1	— 6.8	— 4.4	— 6.8
9	— 7.9	— 7.0	— 6.5	— 8.4	— 7.0	— 5.8	— 5.9	— 7.1	— 9.5	— 7.1	— 6.8	— 4.9	— 7.0
10	— 7.4	— 5.9	— 7.9	— 8.3	— 7.3	— 7.4	— 7.0	— 8.3	— 9.0	— 5.6	— 5.2	— 3.7	— 6.9
11	— 5.3	— 4.5	— 7.1	— 7.8	— 7.2	— 7.6	— 7.6	— 9.1	— 10.2	— 6.0	— 3.8	— 5.1	— 6.8
12	— 4.5	— 5.0	— 5.5	— 7.2	— 7.3	— 7.1	— 7.4	— 7.8	— 9.5	— 5.1	— 3.9	— 3.6	— 6.1
Total amount of variation.	127.7	136.0	158.2	204.7	173.4	155.7	168.4	209.8	229.1	136.8	147.0	110.5	159.2

TABLE 22. Mean Diurnal variation of Declination in the year 1888.

Observed by means of Wild's magnetometer.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 0.06	— 0.08	— 0.08	0.06	— 0.03	— 0.03	0.00	— 0.10	0.06	— 0.07	— 0.08	— 0.21	— 0.05
2	— 0.07	— 0.06	— 0.13	0.15	0.15	0.16	0.11	— 0.02	0.09	— 0.09	— 0.13	— 0.20	0.00
3	— 0.32	— 0.09	— 0.21	0.25	0.24	0.17	0.23	0.12	0.12	— 0.13	— 0.20	— 0.24	— 0.01
4	— 0.47	— 0.12	— 0.26	0.17	0.36	0.33	0.38	0.18	0.19	— 0.15	— 0.20	— 0.32	0.01
5	— 0.63	— 0.20	— 0.32	0.12	0.38	0.43	0.40	0.33	0.20	— 0.25	— 0.39	— 0.57	— 0.04
6	— 1.33	— 0.33	— 0.37	0.26	0.65	0.50	0.58	0.53	0.61	— 0.20	— 0.58	— 1.07	— 0.06
7	— 2.33	— 1.23	— 0.71	0.29	0.87	1.10	1.01	1.04	0.67	— 0.90	— 1.46	— 1.78	— 0.29
8	— 2.18	— 2.53	— 1.30	— 0.64	0.23	0.65	0.53	0.41	— 0.41	— 1.81	— 2.08	— 1.83	— 0.91
9	— 1.54	— 2.96	— 1.34	— 1.40	— 0.59	— 0.15	— 0.27	— 0.46	— 1.36	— 2.12	— 2.06	— 1.67	— 1.33
10	— 1.02	— 2.43	— 0.92	— 1.23	— 0.80	— 0.63	— 0.67	— 0.93	— 1.63	— 1.76	— 1.53	— 1.13	— 1.22
11	— 0.28	— 1.23	— 0.33	— 0.78	— 0.91	— 0.84	— 0.81	— 0.97	— 1.47	— 0.70	— 0.55	— 0.56	— 0.79
12	0.47	0.45	0.31	— 0.34	— 0.79	— 0.56	— 0.62	— 0.86	— 0.88	0.61	0.69	0.43	— 0.09
1 p. m.	1.40	1.83	0.75	— 0.19	— 0.29	— 0.25	— 0.33	— 0.55	— 0.33	1.57	1.48	1.34	0.54
2	1.77	2.23	1.05	0.27	0.20	0.05	0.06	— 0.10	0.37	1.73	1.74	1.71	0.92
3	1.41	2.11	1.16	0.72	0.73	0.33	0.34	0.52	1.01	1.55	1.77	1.68	1.11
4	1.21	1.65	1.05	1.11	0.97	0.40	0.50	0.98	1.14	1.07	1.39	1.57	1.09
5	0.86	1.04	0.81	0.97	0.70	0.27	0.39	0.89	0.91	0.67	0.95	1.24	0.81
6	0.62	0.77	0.53	0.50	— 0.02	— 0.15	— 0.14	0.15	0.45	0.53	0.61	0.72	0.38
7	0.74	0.59	0.36	0.22	— 0.20	— 0.22	— 0.23	— 0.01	0.26	0.34	0.39	0.52	0.23
8	0.68	0.40	0.15	0.01	— 0.40	— 0.27	— 0.32	— 0.15	0.16	0.16	0.30	0.35	0.09
9	0.49	0.23	0.04	— 0.12	— 0.43	— 0.37	— 0.39	— 0.27	0.03	0.09	0.12	0.20	— 0.03
10	0.27	0.06	— 0.05	— 0.20	— 0.49	— 0.39	— 0.33	— 0.31	— 0.09	— 0.07	0.01	0.00	— 0.13
11	0.19	— 0.03	— 0.11	— 0.14	— 0.38	— 0.31	— 0.27	— 0.27	— 0.05	— 0.07	— 0.12	— 0.06	— 0.14
12	0.09	— 0.07	— 0.09	— 0.07	— 0.19	— 0.21	— 0.16	— 0.16	— 0.02	— 0.06	— 0.11	— 0.14	— 0.10
Total amount of variation.	20.43	22.72	12.43	10.21	11.00	8.77	9.07	10.31	12.51	16.70	18.94	19.54	10.37

TABLE 23. Mean Diurnal variation of Horizontal Force in the year 1888.

Observed by means of Wild's Magnetometer.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 7.8	— 8.5	— 7.7	— 7.8	— 5.0	— 7.1	— 8.1	— 8.8	— 15.8	— 11.0	— 3.3	— 4.2	— 7.9
2	— 6.0	— 8.6	— 7.0	— 6.8	— 3.2	— 3.4	— 6.1	— 5.6	— 10.7	— 6.1	— 3.2	— 4.5	— 5.9
3	— 4.7	— 6.4	— 3.6	— 4.1	— 1.6	— 3.5	— 4.9	— 3.7	— 7.7	— 2.2	0.0	— 3.0	— 3.8
4	— 5.5	— 5.0	— 3.4	— 0.9	— 0.3	— 1.5	— 4.3	— 2.1	— 6.4	— 0.8	2.0	— 2.0	— 2.5
5	— 2.4	— 4.3	— 1.6	0.7	0.5	— 0.9	— 1.1	— 0.2	— 5.0	0.4	3.1	0.9	— 0.8
6	1.6	— 2.4	— 1.0	3.4	4.0	2.2	2.4	1.9	— 2.6	1.5	4.9	4.6	1.7
7	7.1	0.3	3.4	9.1	10.6	8.7	10.0	11.6	6.8	8.2	9.7	9.4	7.9
8	13.2	7.3	10.3	17.2	16.1	15.3	16.8	21.3	17.7	15.7	15.9	12.3	14.9
9	22.7	19.1	18.4	24.8	22.8	20.3	24.6	28.6	25.9	23.2	22.2	19.5	22.7
10	28.9	28.3	23.1	31.9	26.3	24.2	31.4	34.6	31.6	27.3	26.2	21.1	27.9
11	28.1	35.0	27.8	36.0	27.3	26.2	33.1	31.2	40.2	25.7	23.3	20.7	29.6
12	23.7	34.4	28.3	30.5	20.3	22.2	25.6	24.6	36.0	23.8	13.7	13.6	24.7
1 p. m.	16.5	24.5	20.5	17.8	10.7	15.4	14.9	15.4	22.8	15.2	7.0	6.0	15.6
2	9.3	13.6	6.7	3.0	2.6	5.4	3.5	4.6	6.8	2.4	1.7	— 0.9	4.6
3	— 0.2	1.6	5.3	— 7.8	— 8.1	— 3.7	— 6.8	— 5.4	— 7.2	— 4.9	— 10.3	— 3.8	— 5.2
4	— 6.8	— 7.0	— 10.9	— 17.2	— 14.1	— 10.2	— 12.0	— 15.3	— 14.3	— 9.7	— 14.4	— 6.5	— 11.5
5	— 12.2	— 13.6	— 12.1	— 20.0	— 15.8	— 13.3	— 14.0	— 19.5	— 15.4	— 13.1	— 14.1	— 7.7	— 14.2
6	— 17.1	— 14.8	— 12.1	— 16.5	— 12.2	— 14.2	— 15.3	— 18.1	— 13.8	— 15.0	— 15.5	— 10.2	— 14.6
7	— 15.6	— 17.6	— 14.2	— 17.0	— 12.9	— 13.9	— 17.3	— 18.5	— 15.0	— 15.6	— 13.8	— 11.8	— 15.3
8	— 15.1	— 18.4	— 11.8	— 18.5	— 15.4	— 13.6	— 15.7	— 17.8	— 15.5	— 14.0	— 13.8	— 10.9	— 15.0
9	— 17.6	— 17.9	— 12.8	— 16.7	— 14.7	— 14.2	— 14.6	— 15.0	— 15.5	— 15.7	— 13.0	— 11.7	— 15.0
10	— 16.7	— 14.4	— 13.1	— 15.0	— 14.7	— 14.7	— 14.8	— 15.6	— 14.0	— 13.3	— 10.5	— 10.4	— 13.9
11	— 13.3	— 12.6	— 11.3	— 14.2	— 12.1	— 13.7	— 14.4	— 15.7	— 15.5	— 12.2	— 7.6	— 11.8	— 12.9
12	— 10.5	— 12.4	— 10.5	— 11.7	— 11.1	— 11.6	— 12.6	— 12.3	— 13.1	— 9.9	— 7.1	— 8.4	— 10.9
Total amount of variation.	302.6	328.0	276.9	348.6	282.4	279.4	324.3	347.4	375.3	286.9	256.3	215.9	299.0

TABLE 24. Mean Diurnal variation of Vertical Force in the year 1888.

Observed by means of Wild's Magnetometer.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	8.0	6.1	5.3	6.7	— 1.5				3.2	4.3	2.0	3.2	
2	7.1	6.5	6.8	7.8	— 0.9				1.4	4.1	2.2	4.4	
3	7.8	6.6	6.0	7.7	0.8				1.2	3.1	1.5	4.1	
4	10.4	7.0	7.5	7.2	3.1				2.0	3.6	1.6	3.8	
5	9.2	8.9	8.6	9.1	6.0				1.7	4.2	2.6	3.9	
6	13.6	10.3	9.1	6.6	4.2				0.4	5.5	5.3	6.1	
7	12.3	19.3	13.7	7.7	4.4				3.3	10.7	10.1	6.0	
8	3.1	16.8	11.2	7.8	7.9				5.8	9.4	8.6	3.6	
9	— 7.7	— 1.7	— 0.6	— 0.1	5.6				2.2	1.4	2.8	— 3.1	
10	— 18.3	— 20.2	— 12.3	— 13.4	— 0.5				6.0	— 10.0	— 6.4	— 8.7	
11	— 27.2	— 37.9	— 22.3	— 23.0	— 5.7				— 13.6	— 20.0	— 14.1	— 11.3	
12	— 25.6	— 45.7	— 27.2	— 21.7	— 9.0				— 16.3	— 25.8	— 15.8	— 14.0	
1 p. m.	— 23.0	— 36.6	— 22.9	— 16.3	— 9.1				— 11.4	— 19.6	— 14.1	— 11.8	
2	— 14.9	— 19.5	— 14.5	— 11.9	— 9.8				— 6.7	— 9.0	— 9.4	— 8.3	
3	— 3.5	— 3.6	— 3.9	— 7.7	— 8.8				— 1.5	— 1.0	— 3.0	— 6.3	
4	5.3	9.3	0.7	— 1.5	— 6.0				2.6	4.1	1.9	— 3.8	
5	7.3	13.0	1.4	3.7	1.0				5.2	4.9	3.7	0.3	
6	6.4	10.2	2.1	4.2	3.1				4.7	5.2	4.3	4.0	
7	3.1	10.5	4.0	3.7	2.0				4.4	5.3	3.4	4.7	
8	3.7	10.5	4.4	4.9	4.2				4.1	4.4	3.1	4.1	
9	5.6	9.7	5.3	5.3	3.4				4.1	4.9	3.2	4.9	
10	6.9	6.8	6.7	5.2	2.9				3.5	4.1	2.9	4.5	
11	4.9	7.0	5.4	4.8	2.2				3.4	3.6	1.7	5.6	
12	5.1	6.9	6.1	3.7	0.2				2.2	2.7	2.0	4.0	
Total amount of variation.	240.0	330.6	208.0	191.7	102.3				110.9	170.9	125.7	134.5	

TABLE 25. Showing, for every day, the ratio R, a relative measure of the diurnal variation, as deduced from Table C. — Declination — 1888.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	1.0	1.1	1.3	0.8	1.2	0.7	1.0	1.2	1.0	1.2	1.1	0.8
2	0.8	1.0	1.3	0.8	1.2	0.5	0.8	1.3	0.7	1.1	0.4	1.0
3	0.9	1.4	1.0	0.9	0.9	1.1	1.2	1.0	0.8	0.8	0.6	1.3
4	0.8	1.1	1.2	1.2	1.1	1.6	1.0	1.4	0.8	1.1	0.9	1.2
5	0.9	0.9	1.0	1.1	0.5	1.1	0.8	1.1	0.6	1.4	0.9	1.3
6	0.8	0.8	0.9	1.2	0.6	1.1	1.0	0.8	1.5	1.0	1.0	1.4
7	0.9	0.6	1.4	1.0	1.2	1.4	1.2	1.1	1.4	0.7	1.3	1.2
8	1.0	1.0	1.7	0.7	1.3	1.1	1.0	0.8	1.5	1.4	1.1	1.4
9	0.9	1.5	1.0	0.5	1.1	0.9	1.0	1.0	0.9	1.2	0.8	1.2
10	0.6	1.3	1.1	0.8	1.1	1.0	0.6	0.7	0.6	1.2	0.9	0.7
11	1.0	1.4	0.9	1.2	1.1	1.3	0.7	1.1	1.0	0.7	1.3	0.7
12	1.1	1.3	0.9	1.1	0.9	0.8	0.7	1.3	1.0	0.9	0.8	0.6
13	1.3	1.1	0.7	1.2	0.8	0.7	0.9	1.0	0.9	0.9	0.8	0.8
14	1.3	1.1	0.9	0.8	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.2
15	1.1	1.5	1.0	1.0	0.9	0.9	0.9	1.0	0.5	1.0	0.8	1.2
16	1.0	1.1	1.1	1.8	1.1	1.1	1.3	1.6	1.0	0.9	0.9	1.1
17	1.8	1.0	1.0	0.9	1.4	0.9	0.6	1.1	0.8	0.9	1.7	0.8
18	0.7	0.7	0.8	0.8	0.8	0.9	1.1	1.4	1.1	0.9	0.7	1.0
19	0.9	0.8	0.8	1.1	0.8	1.4	0.8	0.8	1.1	0.9	1.0	1.0
20	0.9	0.9	0.8	1.1	1.5	1.4	0.9	0.8	0.8	1.1	1.4	1.3
21	1.1	0.8	0.9	1.3	1.1	0.9	1.2	1.3	1.0	1.0	1.2	1.2
22	0.8	1.1	1.0	1.2	1.1	0.7	1.5	1.0	0.9	0.9	1.0	1.4
23	1.3	0.7	0.7	1.4	0.7	1.2	1.0	0.9	0.8	1.1	1.0	1.3
24	0.9	1.0	0.9	1.2	1.0	1.4	1.3	0.5	1.0	1.2	1.0	1.1
25	0.8	0.9	0.7	0.8	1.1	1.1	1.0	0.8	1.7	1.2	1.3	0.8
26	0.9	0.7	1.0	1.1	1.4	0.7	1.1	0.3	1.4	0.8	1.1	1.0
27	0.9	0.7	0.9	0.6	1.3	0.8	1.1	1.3	1.3	0.7	1.1	0.5
28	0.8	0.7	1.0	1.0	0.8	1.0	1.1	0.5	1.0	0.9	0.9	0.4
29	1.1	0.8	1.0	0.6	0.8	1.0	1.4	0.8	1.0	0.6	1.2	0.4
30	1.2		1.1	0.8	0.9	0.7	0.8	0.7	1.1	0.7	0.7	0.8
31	1.3		1.2		0.6		0.9	1.2		1.5		0.9
Mean ratio.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean amount of differences.	22.2	25.7	14.1	13.2	13.0	10.6	10.8	11.8	14.4	19.2	20.7	21.1

TABLE 26. Showing, for every day, the ratio R, a relative measure of the diurnal variation, as deduced from Table C. — Horizontal Force — 1888.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0.8	0.9	1.0	0.8	2.2	0.9	1.3	0.8	1.1	1.2	0.6	0.7
2	0.8	0.9	1.0	1.2	0.7	1.0	1.0	0.8	0.9	1.0	0.6	1.6
3	0.7	1.0	0.9	1.4	0.9	1.9	0.7	1.2	0.8	0.9	1.1	1.0
4	1.0	1.0	0.8	0.5	0.6	1.2	0.9	1.0	0.9	1.2	1.0	0.9
5	0.6	1.0	0.7	1.0	0.8	0.8	0.9	0.9	1.2	1.7	1.0	1.1
6	1.2	1.0	0.8	0.8	0.8	0.8	0.8	0.7	1.1	1.0	0.9	1.1
7	0.7	1.1	0.8	0.8	3.0	1.0	1.0	0.7	1.2	1.0	1.0	0.7
8	2.5	0.9	1.3	0.9	0.8	1.0	1.0	1.0	1.1	1.2	1.2	2.1
9	0.9	1.9	0.7	0.9	0.5	1.0	1.1	1.0	1.0	1.0	1.2	0.8
10	0.9	0.7	0.7	1.1	1.0	0.9	0.9	0.8	1.0	1.0	0.8	0.7
11	1.3	1.4	0.8	2.5	0.8	1.0	1.0	0.6	0.9	0.4	2.2	0.6
12	1.4	0.8	1.0	1.5	0.9	1.1	1.1	1.4	1.4	1.1	0.6	0.8
13	2.5	1.0	1.0	1.4	1.1	1.1	1.2	0.7	1.4	1.1	0.6	0.8
14	0.9	1.2	1.1	0.9	0.9	1.3	1.0	0.7	0.8	0.9	0.7	0.8
15	0.7	1.0	1.0	0.9	0.6	0.8	0.8	1.0	0.8	0.9	1.1	1.4
16	1.2	1.2	1.8	0.8	0.8	0.5	1.0	2.4	1.0	1.2	1.3	0.6
17	0.9	1.0	1.6	0.7	1.0	0.6	1.2	1.0	0.9	0.8	2.5	0.4
18	1.1	1.3	1.2	1.0	0.8	0.6	1.0	0.9	1.1	0.8	1.1	0.6
19	0.7	0.7	0.7	0.7	0.7	0.6	1.0	1.1	0.8	0.7	0.7	0.8
20	1.2	0.9	0.9	1.0	1.0	0.9	0.6	1.0	0.9	1.0	1.1	0.9
21	1.0	1.0	1.1	1.0	2.0	1.2	1.1	0.7	0.8	0.9	1.1	0.8
22	0.9	0.6	0.8	1.0	0.8	1.4	1.2	1.0	0.9	1.0	1.1	0.9
23	1.4	0.7	1.1	0.7	1.0	1.4	0.7	0.8	1.2	1.2	0.8	1.1
24	0.9	1.0	0.9	0.9	0.7	0.9	1.1	0.9	0.7	0.8	1.0	2.1
25	0.5	0.9	0.9	0.7	0.8	0.9	0.9	1.3	1.2	1.1	0.8	1.3
26	0.4	0.9	1.0	0.8	1.4	0.7	1.0	1.2	1.3	1.2	1.0	1.3
27	0.7	0.8	1.2	0.9	1.1	1.1	0.9	1.4	1.3	0.9	0.7	1.3
28	0.4	1.1	1.6	0.8	0.9	1.3	1.4	1.0	0.8	0.8	0.8	0.5
29	0.7	1.0	0.9	1.0	0.8	1.0	1.0	0.7	0.6	0.9	0.5	1.0
30	0.7		0.9	1.4	0.8	1.0	0.9	1.0	0.8	1.1	0.8	1.3
31	1.2		0.8		0.8		1.1	1.5		1.3		0.8
Mean ratio.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean amount of differences.	31.3	33.9	32.9	36.9	31.9	28.4	29.3	32.1	36.1	27.4	25.9	22.7

TABLE 27. Showing, for every day, the ratio R, a relative measure of the diurnal variation, as deduced from Table C. — Vertical Force. — 1888.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0.7	0.8	1.0	1.1	1.9	1.2	1.4	0.7	1.0	1.3	1.4	0.7
2	0.5	1.2	1.0	1.1	0.9	1.5	1.0	1.0	1.0	1.1	0.8	1.0
3	0.4	1.3	1.1	1.0	0.8	1.3	0.8	1.2	0.5	0.8	0.8	1.1
4	0.9	1.5	1.0	0.7	0.7	1.0	0.5	1.0	0.7	1.2	0.9	1.1
5	0.3	1.0	1.0	1.2	1.1	0.6	0.8	1.0	1.4	1.6	0.7	0.8
6	0.7	0.9	0.9	0.7	0.7	1.0	0.9	0.8	0.6	1.3	0.8	0.8
7	1.0	0.9	1.5	0.9	2.4	0.9	1.2	1.6	0.7	1.0	1.4	0.7
8	1.3	0.8	1.0	0.8	1.0	0.9	0.8	1.1	0.7	1.2	1.0	1.3
9	0.7	1.7	0.8	0.9	0.7	0.8	1.0	1.1	1.0	1.0	1.0	1.0
10	0.7	1.1	0.8	0.8	1.4	0.9	1.4	0.9	0.9	0.9	1.2	0.5
11	1.2	1.1	0.9	2.3	0.9	1.4	1.4	0.6	0.9	0.5	2.0	0.7
12	0.7	1.0	0.6	1.2	0.8	1.0	1.0	0.8	1.0	0.9	0.4	1.0
13	1.5	1.2	0.7	1.1	0.8	1.1	0.9	0.9	1.5	1.0	0.7	1.3
14	1.2	1.3	0.9	0.9	0.9	0.8	1.1	0.4	1.2	1.5	1.1	1.0
15	1.1	1.2	1.0	0.9	0.6	0.9	1.1	0.6	1.2	1.2	0.6	0.9
16	1.4	1.2	0.9	1.2	0.8	0.6	1.1	1.9	0.8	0.9	0.8	1.0
17	2.0	1.0	1.3	0.9	1.4	0.9	1.3	0.9	0.8	0.9	1.8	0.9
18	0.8	0.8	0.7	0.9	0.7	0.7	0.8	1.3	1.2	1.0	0.9	0.8
19	0.9	0.7	1.0	1.1	0.6	1.0	0.8	1.0	0.6	0.8	1.0	0.9
20	1.4	1.0	1.0	1.8	1.2	0.8	0.8	1.0	0.9	1.3	1.2	1.1
21	1.5	0.9	1.2	1.3	1.9	1.4	1.1	1.3	0.9	0.6	0.9	1.3
22	0.5	1.0	1.0	0.8	0.9	0.9	1.0	1.4	0.5	0.9	0.8	0.9
23	1.8	0.7	1.1	0.7	0.9	1.0	1.1	0.8	1.1	0.9	0.9	1.6
24	1.0	0.9	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.1	1.1	1.8
25	0.9	0.8	1.0	0.5	0.7	0.7	0.9	1.2	1.6	1.0	0.6	0.6
26	1.0	0.7	1.3	0.5	1.0	1.0	1.0	0.9	1.7	1.1	1.6	1.2
27	1.0	1.1	0.9	1.0	0.9	0.8	0.9	1.1	1.2	0.6	0.6	0.9
28	0.7	0.7	1.5	0.9	0.7	1.4	1.1	1.0	0.8	0.7	1.0	1.1
29	0.6	0.4	1.2	0.8	0.7	1.0	1.0	0.8	1.1	1.1	1.2	0.5
30	0.7		0.8	1.2	1.1	1.1	0.7	0.5	1.4	1.0	0.7	1.2
31	1.8		1.0		0.8		0.9	1.1		0.9		1.2
Mean ratio.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean amount of differences.	303	356	263	236	207	203	186	178	196	229	194	216

TABLE 28. Mean hourly and monthly amount of deviations, positive and negative taken conjointly. — Declination 1888 — Unity = 0'.1.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	2.9	2.5	1.5	2.6	1.5	2.1	2.0	1.9	1.5	2.1	2.4	2.5	2.13
2	3.6	2.4	2.1	2.7	1.5	2.1	2.1	2.3	2.2	2.2	2.9	1.7	2.30
3	3.5	2.6	1.9	2.7	2.3	2.1	1.6	2.3	1.8	2.6	3.2	2.2	2.39
4	2.9	2.8	2.1	2.7	2.5	2.0	1.9	2.0	1.9	3.2	3.4	2.8	2.52
5	3.4	3.0	2.2	2.8	2.0	2.1	2.0	2.1	1.8	3.5	3.1	2.6	2.55
6	4.1	3.9	3.0	2.9	2.5	2.3	2.6	2.4	2.6	4.4	4.1	3.4	3.17
7	5.2	5.3	2.8	3.1	3.4	2.3	3.3	3.8	4.3	4.6	3.6	4.4	3.84
8	5.7	4.6	3.7	3.0	4.0	3.5	4.1	4.0	4.8	2.6	5.1	5.2	4.20
9	6.0	4.6	4.0	3.3	3.7	3.8	3.6	3.6	3.8	4.6	5.1	4.3	4.20
10	5.1	6.5	4.5	3.7	4.1	3.3	2.6	3.4	2.9	5.1	4.3	4.8	4.18
11	8.1	7.7	4.3	4.6	4.2	2.5	3.9	3.0	2.3	7.0	5.2	5.5	4.87
12	8.4	6.7	4.2	5.0	4.9	4.0	4.4	3.7	4.3	5.8	5.4	5.3	5.17
1 p. m.	6.4	4.3	3.5	4.8	4.5	4.1	4.5	3.5	5.9	3.6	4.0	3.6	4.40
2	5.7	3.5	3.3	4.7	5.3	3.7	4.9	3.6	6.2	3.4	3.6	3.5	4.29
3	5.3	3.9	3.6	3.7	4.4	3.4	4.5	3.4	4.7	3.6	3.5	3.0	3.90
4	5.5	3.2	2.4	2.8	4.0	2.6	3.2	3.3	3.5	2.8	3.8	2.5	3.30
5	4.8	3.0	3.1	2.6	2.9	2.3	2.8	3.2	2.2	2.2	3.1	1.9	2.84
6	4.3	2.8	3.1	2.0	2.5	2.2	2.2	2.5	1.7	2.2	2.5	2.4	2.55
7	3.6	2.2	2.7	1.8	2.3	2.0	1.5	2.5	1.7	1.7	2.3	2.1	2.20
8	2.5	2.8	2.0	2.5	3.7	1.8	2.2	1.9	1.5	1.8	1.9	2.1	2.23
9	3.3	2.0	2.5	2.6	2.3	1.8	1.9	1.5	2.3	1.9	1.9	1.8	2.15
10	2.9	2.4	1.6	2.0	2.2	1.7	1.4	1.6	2.1	2.3	1.6	2.2	2.00
11	2.6	2.5	1.5	2.1	1.9	2.4	1.2	1.5	1.5	1.9	1.9	1.5	1.87
12	3.1	2.1	2.4	2.3	2.2	2.3	1.6	1.3	2.0	2.2	1.8	2.3	2.13
Monthly Means.	4.53	3.64	2.84	3.03	3.11	2.60	2.75	2.68	2.89	3.23	3.33	3.07	3.14

TABLE 29. Mean hourly and monthly amount of deviations, positive and negative taken conjointly. — Horizontal Force 1888. Unity = 0.0001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	5.1	4.6	6.4	4.9	6.5	3.0	3.8	3.5	4.0	2.9	5.9	5.0	4.63
2	5.3	4.6	5.5	3.1	6.2	5.7	3.1	5.3	5.4	3.2	5.1	3.8	4.68
3	5.6	5.4	5.3	5.3	6.4	4.4	3.4	4.4	5.1	4.0	6.2	3.6	4.91
4	5.1	5.9	3.9	7.6	5.9	4.8	3.8	4.9	4.7	3.5	6.7	5.6	5.19
5	4.6	4.1	4.5	6.2	5.2	5.3	3.4	5.0	4.6	4.0	5.5	4.2	4.71
6	5.9	4.2	4.0	5.4	6.0	4.7	4.3	4.2	3.9	3.6	6.6	4.3	4.75
7	6.1	4.4	5.1	6.1	4.6	4.9	4.2	4.6	4.1	3.9	5.0	4.2	4.78
8	7.1	4.6	3.8	4.3	4.1	5.1	4.2	4.1	4.6	3.8	4.7	5.0	4.63
9	5.7	5.3	4.1	5.4	4.6	4.2	3.8	4.5	4.9	5.2	4.9	6.4	4.93
10	7.4	5.0	3.5	6.8	8.0	5.4	3.8	5.1	3.7	5.0	3.9	5.4	5.25
11	6.9	5.6	3.2	7.4	8.8	5.9	2.8	4.5	4.1	4.3	4.9	4.2	5.22
12	6.6	3.9	4.8	6.2	7.5	6.0	5.0	5.2	3.4	5.3	5.0	5.1	5.35
1 p. m.	7.5	7.3	5.7	7.0	7.3	6.9	5.1	4.7	6.8	4.6	6.4	6.8	6.34
2	7.3	5.9	6.3	7.0	9.3	6.2	6.7	6.1	6.7	4.4	4.2	6.9	6.41
3	6.4	6.2	7.2	5.5	9.6	4.8	7.6	6.0	8.5	5.7	5.8	5.3	6.55
4	5.6	7.2	6.1	6.1	6.5	4.5	6.3	6.9	6.4	5.2	6.5	4.2	5.94
5	5.0	6.3	4.5	5.8	6.5	3.9	5.9	7.4	6.6	4.2	5.9	5.1	5.59
6	6.6	5.2	4.2	4.5	7.1	4.0	4.3	4.2	3.5	5.0	4.5	5.3	4.87
7	8.8	5.3	5.7	5.3	5.9	3.9	5.5	4.5	4.2	5.3	4.2	5.6	5.35
8	5.5	6.4	4.0	7.2	5.0	3.2	3.6	5.0	3.8	3.5	3.7	6.0	4.73
9	7.6	5.2	5.9	6.0	4.5	3.2	4.6	3.6	4.0	4.5	3.4	5.7	4.87
10	8.4	3.7	5.5	3.5	5.5	3.6	3.8	3.3	4.0	4.1	4.2	5.9	4.64
11	4.9	4.6	7.8	3.6	4.3	3.7	3.7	3.8	4.7	4.1	5.0	4.4	4.55
12	5.2	4.9	7.0	4.8	4.6	4.9	3.5	4.0	4.7	3.9	5.3	4.7	4.78
Monthly Means.	6.26	5.23	5.17	5.62	6.25	4.67	4.43	4.78	4.85	4.31	5.14	5.11	5.15

TABLE 30. Mean hourly and monthly amount of deviations, positive and negative taken conjointly. — Vertical Force 1888. — Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	4.7	3.4	4.3	4.5	5.6	2.7	2.2	3.0	3.2	2.3	3.9	3.5	3.61
2	4.7	3.5	2.6	3.2	5.2	4.9	1.7	3.7	3.0	2.6	3.5	3.3	3.49
3	4.8	4.6	3.4	4.1	4.5	4.8	2.8	3.6	3.5	2.5	3.7	2.8	3.77
4	3.8	4.6	3.6	4.8	4.9	4.8	2.8	4.0	3.1	2.5	3.8	3.8	3.87
5	4.9	3.2	4.8	3.7	4.9	5.0	3.0	4.4	3.1	2.7	3.7	3.0	3.87
6	6.1	4.0	4.4	4.4	5.2	4.9	3.4	5.7	4.4	2.8	3.8	3.6	4.39
7	7.1	3.8	4.5	4.4	4.8	5.8	3.5	6.6	4.9	3.4	4.4	4.1	4.78
8	8.1	7.8	6.6	5.5	5.5	6.6	4.4	5.0	4.8	5.5	6.6	7.5	6.16
9	7.0	10.1	5.7	5.2	7.3	6.2	4.8	5.7	5.0	5.7	6.4	6.9	6.32
10	8.4	10.0	4.0	4.8	8.9	6.8	4.7	6.1	4.8	6.6	4.8	5.2	6.26
11	8.1	5.4	4.6	4.1	9.4	7.2	3.6	7.7	5.1	3.6	3.4	4.9	5.61
12	6.2	4.8	5.0	4.6	7.3	6.5	5.5	6.1	5.7	4.5	4.5	4.8	5.45
1 p. m.	8.2	8.0	4.7	5.4	7.9	6.1	6.1	5.9	5.3	5.3	4.0	6.7	6.13
2	9.5	7.3	5.9	6.9	8.5	6.0	6.3	7.2	5.3	4.4	4.6	8.2	6.68
3	8.4	6.9	6.1	6.1	8.9	5.3	6.1	7.3	7.5	5.3	5.7	6.8	6.70
4	7.9	6.9	5.4	5.4	5.5	4.7	4.6	5.8	5.5	5.1	6.7	5.6	5.77
5	6.6	5.9	4.5	4.3	4.9	3.4	3.2	4.7	4.2	3.3	4.4	4.4	4.47
6	6.4	3.8	3.6	3.3	4.1	2.8	3.1	3.5	3.2	3.6	3.2	4.2	3.73
7	6.1	4.0	3.5	3.5	3.1	2.5	3.7	3.1	2.7	3.2	1.7	3.2	3.36
8	2.9	4.2	3.6	5.1	3.1	2.4	2.9	3.3	3.4	1.6	1.9	2.9	3.10
9	4.5	3.9	3.6	3.3	4.2	3.3	3.0	2.9	3.4	3.0	2.5	3.9	3.45
10	4.5	3.0	4.2	1.9	3.8	2.5	2.9	2.5	2.9	2.4	3.1	4.1	3.15
11	3.5	3.5	3.8	1.8	4.2	2.8	2.7	3.1	2.6	3.4	3.2	3.5	3.17
12	4.3	4.4	4.1	3.2	4.1	3.6	2.5	2.5	2.9	2.9	3.3	3.3	3.42
Monthly Means.	6.11	5.28	4.44	4.31	5.65	4.65	3.74	4.72	4.14	3.69	4.03	4.59	4.61

TABLE 31. Aggregate values and numbers of disturbances, positive and negative taken separately.

1888.	Declination in minutes of arc.				Horizontal Force. Unity = 0.00001 c. g. s.				Vertical Force. Unity = 0.00001 c. g. s.			
	Aggregate values.		Numbers.		Aggregate values.		Numbers.		Aggregate values.		Numbers,	
	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.
January. . .	28.4	45.1	18	30	887	1062	54	56	1031	1072	64	71
February . .	22.6	12.4	11	8	662	567	44	35	680	769	39	48
March. . . .	5.1	1.4	3	1	788	726	44	37	380	500	26	35
April	8.6	2.9	6	2	781	737	44	35	531	346	34	23
May.	11.6	10.2	5	6	1063	1177	52	47	913	877	41	56
June	2.6	—	2	—	591	530	37	35	517	571	34	42
July.	2.8	—	2	—	373	527	26	31	311	286	19	23
August . , .	5.5	1.3	4	1	633	703	39	38	631	442	38	30
September .	11.0	8.8	6	7	564	573	40	37	330	344	22	27
October. . .	12.0	11.8	8	8	418	402	24	26	246	166	16	13
November .	10.8	4.6	7	3	566	575	35	34	435	282	25	19
December. .	7.8	10.0	5	6	813	621	49	34	555	494	32	30
Total amount.	128.8	108.5	77	72	8139	8200	488	445	6560	6149	390	417

TABLE 32. Aggregate values, numbers of disturbances, and mean daily value and number, positive and negative taken conjointly.

1888.	Declination in minutes of arc.				Horizontal Force. Unity = 0.00001 c. g. s.				Vertical Force. Unity = 0.00001 c. g. s.			
	Aggregate values.	Numbers.	Mean daily value.	Mean daily number.	Aggregate values.	Numbers.	Mean daily value.	Mean daily number.	Aggregate values.	Numbers.	Mean daily value.	Mean daily number.
January. . .	73.5	48	2.37	1.5	1949	110	62.9	3.5	2103	135	67.8	4.4
February . .	35.0	19	1.21	0.7	1229	79	42.4	2.7	1449	87	50.0	3.0
March. . . .	6.5	4	0.21	0.1	1514	81	48.8	2.6	880	61	28.4	2.0
April	11.5	8	0.38	0.3	1518	79	50.6	2.6	877	57	29.2	1.9
May.	21.8	11	0.70	0.4	2240	99	72.3	3.2	1790	97	57.7	3.1
June	2.6	2	0.09	0.1	1121	72	37.4	2.4	1088	76	36.3	2.5
July	2.8	2	0.09	0.1	900	57	29.0	1.8	597	42	19.3	1.4
August . . .	6.8	5	0.22	0.2	1336	77	43.1	2.5	1073	68	34.6	2.2
September .	19.8	13	0.66	0.4	1137	77	37.9	2.6	674	49	22.5	1.6
October. . .	23.8	16	0.77	0.5	820	50	26.5	1.6	412	29	13.3	0.9
November .	15.4	10	0.51	0.3	1141	69	38.0	2.3	717	44	23.9	1.5
December. .	17.8	11	0.57	0.4	1434	83	46.3	2.7	1049	62	33.8	2.0
Total amount.	237.3	149	7.78	5.0	16339	933	535.2	30.5	12709	807	416.8	26.5
Means.			0.648	0.42			44.60	2.54			34.73	2.21

TABLE 33. Mean temperature of magnetograph- and magnetometer-rooms, observed at Noon and at 7ʰ. 30ᵐ. a. m. respectively — 1888.

	Magnetograph.	Magnetometer.		Magnetograph.	Magnetometer.
January	28.65	26.16	July.	29.87	27.69
February	28.70	26.51	August.	30.19	28.06
March	29.86	27.67	September	30.49	28.36
April	30.13	27.98	October	30.90	28.70
May.	30.49	27.99	November.	31.01	28.83
June	30.19	28.03	December	30.32	28.18
			Year. . . .	30.07	27.85

TABLE 34. Solar Diurnal Variation — Declination.

Components of thé Single-Periodic Formula.

	a_1							b_1						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	0′.17	— 0′.17	— 0′.02	0′.09	0′.02	—	—	— 1′.24	— 1′.12	— 1′.33	— 1′.07	— 1′.18
February . .	—	—	— 0.20	0.23	— 0.31	— 0.09	0.03	—	—	— 1.11	— 1.35	— 1.26	— 1.17	— 1.31
March . . .	—	—	— 0.08	0.00	— 0.23	— 0.24	— 0.07	—	—	— 1.11	— 1.01	— 1.01	— 0.92	— 0.73
April . . .	—	— 0′.11	0.37	0.10	0.03	0.00	0.16	—	— 0′.49	— 0.75	— 0.77	— 0.53	— 0.45	— 0.37
May. . . .	—	0 .01	0.36	0.15	0.06	0.18	0.06	—	— 0 .12	— 0.38	— 0.23	— 0.06	— 0.07	0.05
June. . . .	—	0 .02	0.21	0.05	— 0.17	0.07	0.07	—	0 .30	— 0.03	— 0.02	0.13	0.17	0.19
July. . . .	0′.25	— 0 .06	0.23	0.17	0.09	0.06	0.04	— 0′.18	0 .13	0.03	0.00	0.06	0.16	0.19
August. . .	0 .60	0 .56	0.60	0.30	0.37	0.11	— 0.08	— 0 .31	— 0 .27	— 0.23	— 0.16	— 0.25	— 0.03	— 0.04
September. .	0 .46	0 .54	0.52	0.10	0.47	0.31	0.31	— 0 .72	— 0 .61	— 0.38	— 0.40	— 0.54	— 0.33	— 0.38
October. . .	— 0 .02	0 .11	0.11	0.07	0.14	0.09	— 0.06	— 0 .94	— 1 .11	— 0.84	— 1.04	— 0.92	— 1.08	— 0.93
November . .	— 0 .45	— 0 .32	— 0.53	— 0.26	— 0.10	— 0.24	— 0.13	— 1 .28	— 1 .14	— 1.24	— 1.31	— 1.21	— 1.19	— 1.09
December . .	—	0 .13	0.02	— 0.33	— 0.11	— 0.24	— 0.15	—	— 1 .24	— 1.17	— 1.18	— 1.25	— 1.26	— 1.18
Year. . . .	—	—	0.15	0.04	0.02	0.01	0.03	—	—	— 0.71	— 0.72	— 0.68	— 0.60	— 0.56

TABLE 35. Solar Diurnal Variation — Declination.

Components of the Double-Periodic Formula.

	a_2							b_2						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	0′.14	0′.62	0′.21	— 0′.05	0′.31	—	—	1′.13	0′.41	0′.68	0′.52	0′.67
February . .	—	—	0.65	0.07	0.33	0.27	0.09	—	—	0.80	1.30	0.74	0.82	1.23
March . . .	—	—	0.30	0.01	0.21	0.49	0.07	—	—	1.00	0.86	0.77	0.69	0.59
April . . .	—	— 0′.13	— 0.28	— 0.05	— 0.11	0.00	— 0.33	—	0′.63	0.97	0.81	0.68	0.64	0.60
May. . . .	—	— 0 .43	— 0.63	— 0.52	— 0.58	— 0.48	— 0.44	—	0 .50	0.80	0.47	0.45	0.50	0.48
June. . . .	—	— 0 .56	— 0.60	— 0.48	— 0.36	— 0.42	— 0.40	—	0 .32	0.56	0.46	0.38	0.20	0.27
July. . . .	— 0′.51	— 0 .52	— 0.67	— 0.70	— 0.53	— 0.48	— 0.39	0′.92	0 .45	0.66	0.53	0.43	0.23	0.29
August. . .	— 0 .74	— 0 .81	— 0.92	— 1.08	— 0.80	— 0.79	— 0.55	0 .86	0 .75	0.82	0.47	0.58	0.23	0.30
September. .	— 0 .17	— 0 .55	— 0.55	— 0.61	— 0.59	— 0.77	— 0.51	1 .01	1 .12	0.66	0.50	0.77	0.49	0.54
October. . .	0 .08	0 .15	0.05	— 0.06	— 0.14	0.01	0.12	1 .12	1 .32	1.04	1.05	0.87	1.04	0.84
November . .	0 .41	0 .42	0.57	0.32	0.08	0.40	0.16	1 .27	1 .13	0.84	0.98	1.04	0.94	0.89
December . .	—	0 .14	0.29	0.36	0.11	0.37	0.18	—	1 .18	0.76	0.75	0.80	0.75	0.79
Year. . . .	—	—	— 0.14	— 0.18	— 0.18	— 0.12	— 0.14	—	—	0.84	0.72	0.68	0.59	0.62

TABLE 36. Solar Diurnal Variation — Horizontal Force.

Components of the Single-Periodic Formula. Unity = 0.00001 c. g. s.

	a_1							b_1						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	— 26.14	— 16.65	— 18.87	— 14.29	— 15.84	—	—	5.98	7.16	8.28	6.93	7.87
February . .	—	—	— 23.10	— 23.72	— 16.26	— 14.19	— 18.45	—	—	5.85	2.95	6.20	7.58	6.08
March . . .	—	—	— 29.23	— 23.70	— 22.10	— 18.15	— 16.77	—	—	8.41	6.31	9.29	8.89	7.76
April . . .	—	— 26.50	— 29.24	— 26.31	— 19.05	— 15.36	— 17.63	—	10.63	10.32	12.31	11.16	11.78	11.94
May. . . .	—	— 19.02	— 23.33	— 22.27	— 16.23	— 13.00	— 13.42	—	11.29	10.64	11.53	12.42	11.61	10.19
June. . . .	—	— 20.49	— 23.09	— 19.61	— 17.39	— 14.70	— 13.85	—	12.51	12.52	12.01	11.13	8.68	8.58
July. . . .	— 23.26	— 21.67	— 20.15	— 20.60	— 19.15	— 15.22	— 15.02	9.33	11.39	11.86	9.89	10.92	10.46	7.89
August. . .	— 24.28	— 23.11	— 22.51	— 20.44	— 18.47	— 16.10	— 15.46	10.29	8.28	11.09	16.24	12.34	13.39	10.49
September. .	— 24.39	— 26.16	— 25.26	— 23.65	— 19.93	— 16.52	— 17.94	7.94	14.32	11.97	13.91	11.51	13.71	11.11
October. . .	— 23.82	— 28.44	— 22.53	— 21.73	— 15.62	— 17.11	— 13.89	10.03	7.81	10.95	10.85	10.53	9.52	7.94
November . .	— 17.43	— 25.38	— 19.40	— 17.48	— 11.36	— 12.88	— 10.36	12.12	10.45	9.05	7.26	8.58	8.54	9.68
December . .	—	— 23.17	— 16.13	— 15.87	— 7.75	— 12.44	— 10.34	—	6.45	8.03	5.31	7.30	7.08	6.71
Year. . . .	—	—	— 23.34	— 21.00	— 16.85	— 15.00	— 14.90	—	—	9.72	9.65	9.97	9.84	8.86

TABLE 37. Solar Diurnal Variation — Horizontal Force.

Components of the Double-Periodic Formula. Unity = 0.00001 c. g. s.

	a_2							b_2						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	14.41	8.55	7.50	6.85	7.00	—	—	— 3.55	— 4.45	— 0.94	— 3.10	— 2.40
February . .	—	—	11.05	11.17	6.90	7.27	10.15	—	—	— 4.31	— 1.52	— 3.79	— 2.39	— 1.36
March . . .	—	—	12.73	10.69	9.93	7.99	8.41	—	—	— 3.93	— 2.53	— 1.96	— 5.40	— 2.86
April . . .	—	10.49	13.52	11.09	9.21	6.48	8.44	—	— 3.47	— 4.80	— 6.35	— 4.86	— 4.37	— 4.93
May. . . .	—	8.65	9.98	8.03	6.98	4.81	5.30	—	— 5.06	— 5.60	— 5.61	— 5.29	— 5.25	— 4.21
June. . .	—	8.66	9.03	8.47	7.90	5.05	5.41	—	— 4.48	— 5.98	— 4.22	— 4.59	— 3.53	— 2.88
July. . . .	10.09	8.38	7.90	7.32	8.14	5.92	6.07	— 6.10	— 5.34	— 5.47	— 5.42	— 4.89	— 5.26	— 4.40
August. . .	11.40	8.85	9.80	7.78	6.78	5.35	6.52	— 6.69	— 4.49	— 7.05	— 7.34	— 4.60	— 7.65	— 4.89
September. .	10.09	11.05	10.94	9.06	8.84	7.50	7.36	— 5.11	— 6.63	— 7.29	— 5.99	— 6.17	— 5.91	— 5.31
October. . .	9.57	13.13	9.65	8.36	7.35	7.92	5.70	— 3.99	— 4.98	— 5.02	— 4.22	— 4.46	— 4.83	— 3.22
November . .	8.18	11.68	7.61	5.60	4.58	5.74	4.85	— 8.82	2.06	3.47	— 2.93	— 3.40	— 4.34	— 4.17
December . .	—	11.84	7.30	5.82	3.12	4.46	3.04	—	— 4.10	— 4.45	— 2.57	— 3.93	— 3.89	— 3.07
Year. . . .	—	—	10.30	8.49	7.27	6.28	6.52	—	—	— 5.08	— 4.43	— 4.07	— 4.66	— 3.64

TABLE 38. Solar Diurnal Variation — Vertical Force.

Components of the Single-Periodic Formula. Unity = 0.00001 c. g. s.

	a_1							b_1						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	23.58	12.01	15.82	11.01	14.81	—	—	— 6.87	— 4.54	— 4.70	— 3.99	— 5.35
February . .	—	—	22.07	22.62	17.12	13.16	17.61	—	—	— 5.26	— 1.18	— 2.36	— 4.74	— 5.02
March . . .	—	—	24.13	17.72	20.87	14.96	13.32	—	—	— 7.84	— 3.31	— 5.71	— 6.90	— 5.10
April . . .	—	21.47	23.86	20.62	14.79	10.97	11.03	—	— 9.24	— 8.65	— 8.98	— 6.63	— 7.69	— 6.78
May. . . .	—	17.61	16.57	16.06	9.86	7.20	6.80	—	— 8.84	— 7.24	— 7.70	— 7.99	— 5.64	— 6.14
June. . . .	—	14.63	15.31	14.15	9.98	7.64	7.76	—	— 12.34	— 11.34	— 9.33	— 8.82	— 6.54	— 6.88
July. . . .	16.57	17.40	13.87	15.79	11.93	7.45	7.90	— 3.48	— 12.77	— 10.42	— 7.08	— 8.38	— 8.00	— 7.01
August. . .	14.81	18.54	17.02	13.57	10.82	4.94	5.45	— 4.03	— 5.28	— 4.63	— 10.60	— 8.17	— 6.83	— 7.20
September. .	16.76	22.75	23.60	16.78	13.14	6.30	8.64	— 3.63	— 13.87	— 17.38	— 11.21	— 5.15	— 6.32	— 5.18
October. . .	16.53	25.88	26.05	19.88	12.95	12.46	11.41	— 2.56	— 9.04	— 13.31	— 6.12	— 4.45	— 3.89	— 3.16
November . .	14.34	22.39	27.66	19.61	9.38	8.71	8.11	— 4.59	— 13.45	— 16.60	— 3.93	— 3.31	— 3.52	— 2.06
December . .	—	20.49	13.34	17.92	6.21	8.16	10.73	—	— 11.66	— 1.63	— 3.99	— 1.50	— 2.94	— 1.37
Year. . . .	—	—	20.59	17.23	12.74	9.41	10.30	—	—	— 9.26	— 6.50	— 5.60	— 5.58	— 5.12

TABLE 39. Solar Diurnal Variation — Vertical Force.

Components of the Double-Periodic Formula. Unity = 0.00001 c. g. s.

	a_2							b_2						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January . .	—	—	— 15.26	7.46	8.72	— 5.80	— 9.65	—	—	0.31	3.78	— 2.24	— 0.94	1.05
February . .	—	—	— 11.85	14.43	— 8.88	— 8.45	— 14.02	—	—	1.43	— 5.13	0.13	0.43	— 1.59
March . . .	—	—	12.84	— 10.76	— 13.00	— 10.02	— 8.32	—	—	0.41	— 1.31	— 0.79	4.00	— 0.12
April . . .	—	— 12.75	— 12.01	12.10	— 9.89	— 7.49	— 7.02	—	1.53	0.96	2.79	0.05	1.17	— 0.04
May. . . .	—	— 7.19	— 7.62	— 7.05	— 4.79	— 3.56	— 3.73	—	0.93	— 0.82	— 0.17	0.81	— 1.56	— 1.78
June. . . .	—	— 5.99	— 4.97	— 6.41	— 5.77	3.30	— 4.20	—	0.16	0.44	0.58	— 0.24	0.64	— 1.33
July. . . .	— 7.66	— 5.50	4.75	4.61	— 5.23	— 3.31	— 3.87	— 0.04	1.81	0.30	0.74	— 0.89	0.83	0.57
August. . .	— 6.41	— 7.42	— 6.93	— 3.89	— 4.32	— 0.27	— 2.13	— 1.82	— 1.88	0.18	— 0.58	1.80	— 0.51	0.42
September. .	— 9.24	— 10.57	— 10.55	6.75	— 7.47	— 3.60	— 5.09	0.86	— 1.93	0.85	— 0.08	1.51	— 0.74	— 1.11
October. . .	— 9.75	— 15.44	— 13.82	— 13.41	— 9.20	— 8.92	— 8.79	— 1.97	0.24	— 0.33	— 2.62	— 1.70	— 1.04	— 1.53
November . .	— 9.34	— 14.59	13.92	— 9.86	— 5.68	— 6.80	— 6.97	— 0.27	— 0.47	3.81	— 2.62	2.72	0.19	— 2.11
December . .		11.87	— 8.75	— 9.95	— 3.40	— 4.85	— 5.28	—	— 0.11	0.08	0.98	— 0.91	— 0.32	— 1.37
Year. . . .	—	—	— 10.27	— 8.89	— 7.19	— 5.53	— 6.58	—	—	0.48	— 0.43	— 1.12	0.07	— 0.75

TABLE 40. Solar Diurnal Variation — Total Force.

Components of the Single-Periodic Formula. Unity = 0.00001 c. g. s.

	a_1							b_1						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January . .	—	—	— 12.10	— 9.11	— 9.14	— 7.35	— 6.89	—	—	2.02	4.26	5.05	4.21	4.37
February . .	—	—	— 10.22	— 10.32	— 6.20	— 6.21	— 7.85	—	—	2.77	2.04	4.37	4.43	2.97
March . . .	—	—	— 14.53	— 12.49	— 9.59	— 8.87	— 8.42	—	—	3.74	4.04	5.49	4.54	4.41
April . . .	—	— 13.33	— 14.62	— 13.65	— 9.78	— 8.37	— 10.25	—	5.07	4.98	6.64	6.69	6.81	7.29
May . . .	—	— 8.62	— 12.91	— 12.25	— 9.64	— 8.01	— 8.55		5.86	5.93	6.53	7.17	7.55	6.04
June. . . .	—	— 11.23	— 13.22	— 10.55	— 10.60	— 9.33	— 8.48	—	5.41	5.87	6.20	5.63	4.53	4.27
July. . . .	— 12.81	— 10.91	— 11.22	— 10.74	— 11.24	— 9.92	— 9.45	6.76	4.13	5.62	5.32	5.66	5.43	3.61
August. . .	— 14.58	— 11.84	— 11.82	— 11.72	— 11.15	— 11.86	— 11.00	7.27	4.87	7.74	9.25	7.01	8.53	5.80
September. .	— 13.64	— 12.35	— 11.27	— 13.11	— 11.34	— 11.60	— 11.68	5.31	6.00	2.51	7.18	7.70	9.24	7.31
October. . .	— 13.26	— 13.02	— 7.73	— 9.81	— 7.63	— 9.14	— 6.77	7.69	2.66	3.46	6.71	7.18	6.56	5.50
November . .	— 8.52	— 12.01	— 4.29	— 6.23	— 5.58	— 7.14	— 5.26	8.54	2.97	0.14	4.83	5.99	5.86	7.54
December . .	—	— 10.84	— 7.99	— 5.57	— 3.90	— 7.02	— 4.00	—	0.11	6.30	2.85	5.70	4.88	5.25
Year. . . .	—	—	— 10.99	— 10.46	— 8.82	— 8.74	— 8.22	—	—	4.26	5.49	6.14	6.05	5.36

TABLE 41. Solar Diurnal Variation — Total Force.

Components of the Double-Periodic Formula. Unity = 0.00001 c. g. s.

	a_2							b_2						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	5.33	4.29	2.48	3.29	1.55	—	—	— 2.94	— 2.17	— 1.90	— 3.16	— 1.62
February . .	—	—	4.28	3.24	1.80	2.39	2.26	—	—	— 3.12	— 3.81	— 3.33	— 1.88	— 1.94
March . . .	—	—	5.14	4.57	2.62	2.29	3.44	—	—	— 3.39	— 2.90	— 2.11	— 2.84	— 2.58
April . . .	—	3.27	6.22	4.21	3.44	2.21	4.08	—	— 2.29	— 4.64	— 4.20	— 4.26	— 3.21	— 4.36
May. . . .	—	4.36	5.34	3.85	3.87	2.54	2.89	—	— 4.05	— 5.28	— 4.98	— 5.04	— 5.37	— 4.56
June. . . .	—	4.84	5.67	4.45	4.23	2.87	2.76	—	— 3.74	— 5.06	— 3.60	— 4.16	— 3.42	— 3.16
July. . . .	5.45	4.59	4.74	4.37	4.70	3.59	3.50	— 5.40	— 4.22	— 4.66	— 5.19	— 4.72	— 4.27	— 3.61
August. . .	7.01	4.33	5.44	5.09	3.93	4.54	4.72	— 6.91	— 5.18	— 6.08	— 6.77	— 4.91	— 6.99	— 4.11
September. .	4.68	4.76	4.82	4.81	4.25	5.02	4.05	— 4.97	— 6.75	— 6.07	— 5.30	— 6.16	— 5.49	— 5.18
October. . .	4.03	4.39	2.05	1.29	2.12	2.76	0.84	— 4.52	— 4.36	— 4.45	— 4.91	— 4.74	— 4.71	— 3.57
November . .	2.93	3.55	0.23	0.37	1.35	1.84	0.96	— 7.82	— 2.25	— 1.31	— 3.73	— 4.30	— 3.73	— 4.68
December . .	—	4.95	2.37	0.47	1.14	1.62	0.16	—	— 3.79	— 4.03	— 1.72	— 3.89	— 3.61	— 3.35
Year. . . .	—	—	4.30	3.42	2.99	2.91	2.60	—	—	— 4.25	— 4.11	— 4.13	— 4.06	— 3.56

TABLE 42. Solar Diurnal Variation — Inclination.

Components of the Single-Periodic Formula.

	a_1							b_1						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	2′.73	1′.52	1′.87	1′.35	1′.68	—	—	— 0′.73	— 0′.61	— 0′.66	— 0′.56	— 0′.69
February . .	—	—	2.50	2.57	1.86	1.49	1.98	—	—	— 0.61	0.20	— 0.41	— 0.63	— 0.60
March . . .	—	—	2.89	2.21	2.36	1.78	1.60	—	—	— 0.90	— 0.48	— 0.77	— 0.84	— 0.67
April . . .	—	2′.60	2.87	2.52	1.80	1.38	1.47	—	— 1′.09	— 1.03	— 1.13	— 0.91	— 1.01	— 0.95
May. . . .	—	2.03	2.11	2.03	1.34	1.02	1.01	—	— 1.09	— 0.94	— 1.00	— 1.06	— 0.85	— 0.84
June. . . .	—	1.87	2.01	1.79	1.39	1.12	1.09	—	— 1.39	— 1.31	— 1.14	— 1.07	— 0.81	— 0.83
July. . . .	2′.12	2.12	1.79	1.95	1.60	1.12	1.15	— 0′.62	— 1.38	— 1.22	— 0.90	— 1.02	— 0.98	— 0.81
August. . .	2.03	2.26	2.11	1.78	1.49	0.98	0.99	— 0.69	— 0.71	— 0.77	— 1.40	— 1.06	— 1.01	— 0.92
September. .	2.17	2.67	2.70	2.13	1.72	1.09	1.32	— 0.57	— 1.57	— 1.73	— 1.36	— 0.82	— 0.99	— 0.80
October. . .	2.14	2.99	2.77	2.28	1.54	1.56	1.36	— 0.58	— 0.96	— 1.40	— 0.86	— 0.73	— 0.65	— 0.53
November . .	1.49	2.61	2.77	2.10	1.11	1.12	0.99	— 0.66	— 1.38	— 1.56	— 0.57	— 0.57	— 0.58	— 0.52
December . .	—	2.39	1.60	1.92	0.75	1.07	1.17	—	— 1.10	— 0.43	— 0.49	— 0.39	— 0.49	— 0.36
Year. . . .	—	—	2.40	2.07	1.57	1.26	1.32	—	—	— 1.05	— 0.85	— 0.79	— 0.78	— 0.71

TABLE 43. Solar Diurnal Variation — Inclination.

Components of the Double-Periodic Formula.

	a_2							b_2						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	— 1′.66	— 0′.87	— 0′.92	— 0′.68	— 0′.96	—	—	0′.16	0′.45	— 0′.13	0′.05	0′.17
February . .	—	—	— 1.29	— 1.49	— 0.91	— 0.89	— 1.40	—	—	0.27	— 0.31	0.16	0.12	— 0.06
March . . .	—	—	— 1.43	— 1.20	— 1.32	— 1.03	— 0.92	—	—	0.18	0.01	0.02	0.50	0.10
April . .	—	— 1′.34	— 1.40	— 1.31	— 1.07	— 0.79	— 0.83	—	0′.24	0.12	0.45	0.19	0.25	0.19
May. . . .	—	— 0 .86	— 0.94	— 0.82	— 0.61	— 0.44	— 0.47	—	0 .26	0.16	0.21	0.15	0.09	0.04
June. . . .	—	— 0 .78	— 0.71	— 0.79	— 0.72	— 0.43	— 0.51	—	0 .19	0.26	0.21	0.16	0.08	0.02
July. . . .	— 0′.95	— 0 .72	— 0.65	— 0.62	— 0.69	— 0.47	— 0.51	0′.24	0 .36	0.24	0.16	0.13	0.26	0.21
August. . .	— 0 .91	— 0 .89	— 0.89	— 0.58	— 0.57	— 0.24	— 0.40	0 .13	0 .00	0.28	0.24	0.05	0.25	0.22
September. .	— 1 .08	— 1 .20	— 1.19	— 0.84	— 0.88	— 0.55	— 0.65	0 .14	0 .12	0.34	0.22	0.13	0.18	0.13
October. . .	— 1 .09	— 1 .64	— 1.38	— 1.30	— 0.95	— 0.94	— 0.85	0 .01	0 .21	0.17	— 0.03	0.05	0.11	0.02
November . .	— 0 .92	— 1 .52	— 1.31	— 0.93	— 0.59	— 0.71	— 0.69	0 .16	0 .05	0.41	— 0.08	— 0.06	0.18	0.01
December . .	—	— 1 .32	— 0.92	— 0.95	— 0.37	— 0.52	— 0.50	—	0 .15	0.18	0.17	0.09	0.13	0.02
Year. . . .	—	—	— 1.15	— 0.98	— 0.80	— 0.64	— 0.73	—	—	0.23	0.14	0.08	0.18	0.09

TABLE 44. Solar Diurnal Variation — Declination.

Constants of the Single-Periodic Formula.

	A_1							C_1						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	1′.25	1′.13	1′.33	1′.07	1′.18	—	—	172°.38	188°.68	180°.95	175°.07	178°.93
February . .	—	—	1.14	1.37	1.29	1.17	1.30	—	—	190.12	170.23	193.92	184.22	178.77
March . . .	—	—	1.12	1.01	1.03	0.95	0.73	—	—	183.85	180.00	192.58	194.88	185.28
April . . .	—	0′.50	0.84	0.78	0.53	0.45	0.40	—	192°.63	153.83	172.33	177.30	179.50	156.48
May. . . .	—	0 .12	0.53	0.28	0.81	0.19	0.08	—	175 .38	136.55	146.82	136.50	111.02	54.30
June. . . .	—	0 .30	0.21	0.06	0.21	0.18	0.21	—	3 .85	96.85	113.33	306.92	21.98	20.72
July. . . .	0′.31	0 .14	0.23	0.17	0.11	0.17	0.19	126°.12	334 .72	83.58	91.03	57.07	20.55	11.95
August. . .	0 .68	0 .62	0.64	0.35	0.45	0.12	0.09	117 .17	115 .78	111.23	118.42	124.40	95.47	243.72
September. .	0 .85	0 .82	0.64	0.41	0.72	0.45	0.49	147 .48	138 .58	126.57	165.68	139.07	136.88	140.57
October. . .	0 .93	1 .11	0.85	1.04	0.93	1.08	0.93	180 .98	174 .53	172.87	176.03	171.18	175.27	183.65
November . .	1 .36	1 .18	1.35	1.33	1.22	1.22	1.09	199 .52	195 .63	202.88	191.35	184.80	191.53	186.98
December . .	—	1 .25	1.16	1.23	1.26	1.28	1.19	—	174 .10	178.97	195.72	184.98	190.87	187.03
Year. . . .	—	—	0.73	0.72	0.68	0.60	0.56	—	—	168.22	177.20	178.48	179.23	177.15

TABLE 45. Solar Diurnal Variation — Declination.

Constants of the Double-Periodic Formula.

	A_2							C_2						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	1′.14	0′.75	0′.71	0′.52	0′.74		—	7°.25	56°.43	16°.75	354°.50	25°.00
February . .	—	—	1.03	1.30	0.81	0.87	1.24		—	39.00	3.03	23.88	18.27	4.17
March . . .	—	—	1.05	0.86	0.80	0.85	0.59	—	—	16.67	0.73	15.22	35.40	6.67
April . . .	—	0′.65	1.01	0.81	0.69	0.64	0.68	—	348°.15	343.95	356.33	350.67	0.08	331.22
May. . . .	—	0 .66	1.02	0.70	0.74	0.69	0.65	—	319 .32	321.55	312.22	307.85	316.17	317.57
June. . . .	—	0 .64	0.82	0.67	0.53	0.46	0.48	—	299 .83	312.83	313.55	316.32	295.95	303.47
July. . . .	1′.06	0 .69	0.94	0.87	0.69	0.53	0.48	331°.03	310 .45	314.53	306.95	309.08	295.83	306.40
August. . .	1 .14	1 .11	1.23	1.19	0.99	0.82	0.62	319 .42	312 .73	311.80	293.53	306.00	286.25	298.50
September. .	1 .02	1 .25	0.86	0.78	0.97	0.91	0.75	350 .70	333 .80	320.12	309.42	322.38	302.63	316.90
October. . .	1 .12	1 .33	1.04	1.05	0.88	1.04	0.84	4 .25	6 .40	2.70	356.72	350.88	0.60	7.98
November . .	1 .34	1 .20	1.02	1.03	1.04	1.02	0.90	17 .95	20 .40	34.17	17.80	4.13	22.93	10.08
December . .	—	1 .19	0.81	0.83	0.81	0.84	0.81	—	6 .97	20.85	25.95	7.62	26.07	12.48
Year. . . .	—	—	0.85	0.74	0.71	0.60	0.64	—	—	350.70	346.17	345.00	348.57	347.32

TABLE 46. Solar Diurnal Variation — Horizontal Force.

Constants of the Single-Periodic Formula. Unity = 0.00001 c. g. s.

	A_1							C_1						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	26.81	18.12	20.61	15.88	17.69	—	—	282°.88	293°.27	293°.68	295°.88	296°.42
February . .	—	—	23.83	23.90	17.40	16.09	19.43	—	—	284.20	277.10	290.88	298.13	288.25
March . . .	—	—	30.42	24.52	23.97	20.20	18.48	—	—	286.07	284.92	292.80	296.08	294.82
April . . .	—	28.56	31.00	29.04	22.08	19.36	21.29	—	291°.85	289.43	295.07	300.37	307.50	304.12
May. . . .	—	22.12	25.64	25.08	20.44	17.43	16.85	—	300 .70	294.52	297.37	307.43	311.75	307.20
June. . . .	—	24.01	26.26	23.00	20.65	17.07	16.29	—	301 .40	298.47	301.48	302.62	300.55	301.78
July. . . .	25.06	24.48	23.38	22.85	22.04	18.47	16.97	291°.85	297 .73	300.48	295.65	299.70	304.50	297.70
August . . .	26.37	24.55	25.10	26.11	22.21	20.94	18.68	292 .97	289 .72	296.23	308.47	303.75	309.77	304.17
September. .	25.65	29.83	27.95	27.44	23.02	21.47	21.10	288 .03	298 .70	295.35	300.45	300.00	309.70	301.77
October. . .	25.85	29.49	25.05	24.29	18.84	19.58	16.00	292 .85	285 .35	295.92	296.53	303.98	299.10	299.77
November . .	21.23	27.45	21.41	18.93	14.23	15.46	14.18	304 .82	292 .37	295.02	292.57	307.05	303.55	313.07
December . .	—	24.05	18.02	16.73	10.64	14.31	12.33	—	285 .55	296.45	288.52	313.30	299.67	302.98
Year. . . .	—	—	25.29	23.11	19.58	17.94	17.34	—	—	292.62	294.67	300.62	303.28	300.73

TABLE 47. Solar Diurnal Variation — Horizontal Force.

Constants of the Double-Periodic Formula. Unity = 0.00001 c. g. s.

	A_2							C_2						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	14.56	9.64	7.56	7.52	7.41	—	—	104°.13	117°.47	97°.15	114°.33	108°.93
February . .	—	—	11.86	11.27	7.87	7.65	10.24	—	—	111.32	97.77	118.77	108.22	97.62
March . . .	—	—	13.32	10.98	10.13	9.65	8.88	—	—	107.15	103.32	101.18	124.05	108.82
April . . .	—	11.05	14.34	12.78	10.42	7.81	9.78	—	108°.32	109.55	119.82	117.78	123.97	120.28
May. . . .	—	10.02	11.44	9.80	8.76	7.12	6.77	—	120 .30	119.28	124.92	127.18	137.53	128.43
June. . . .	—	9.75	10.83	9.46	9.13	6.16	6.13	—	117 .32	123.52	116.48	120.15	124.93	118.03
July. . . .	11.80	9.94	9.61	9.11	9.50	7.92	7.50	121°.15	122 .50	124.72	126.53	120.98	131.62	125.93
August . . .	13.22	9.92	12.07	10.69	8.19	9.34	8.15	120 .40	116 .88	125.72	133.33	124.12	145.05	126.88
September. .	11.31	12.89	13.15	10.86	10.78	9.55	9.08	116 .85	120 .98	123.65	123.47	124.92	128.22	125.78
October. . .	10.36	14.05	10.87	9.36	8.60	9.28	6.54	112 .63	110 .78	117.48	116.77	121.25	121.37	119.47
November . .	12.03	11.86	8.36	6.32	5.71	7.19	6.40	137 .18	100 .02	114.53	117.65	126.62	127.08	130.68
December . .	—	12.53	8.55	6.36	5.02	5.92	4.32	—	109 .12	121.40	113.83	141.57	131.10	135.20
Year. . . .	—	—	11.48	9.58	8.33	7.82	7.47	—	—	116.23	117.53	119.27	126.58	119.18

TABLE 48. Solar Diurnal Variation — Vertical Force.

Constants of the Single-Periodic Formula. Unity = 0.00001 c. g. s.

	A_1							C_1						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	24.56	12.84	16.50	11.71	15.75	—	—	106°.23	110°.70	106°.57	109°.90	109°.87
February . .	—	—	22.69	22.65	17.28	13.99	18.31	—	—	103.40	92.98	97.83	109.82	105.90
March . . .	—	—	25.37	18.03	21.64	16.47	14.26	—	—	108.00	100.57	105.30	114.77	110.97
April . . .	—	23.37	25.38	22.49	16.21	13.40	12.94	—	115°.28	109.93	113.53	114.15	125.03	121.57
May. . . .	—	19.71	18.09	17.81	12.69	9.14	9.17	—	116 .67	113.58	115.60	129.03	128.08	132.08
June. . . .	—	19.14	19.05	16.95	13.32	10.06	10.37	—	130 .13	126.53	123.40	131.47	130.58	131.57
July. . . .	16.93	21.58	17.34	17.30	14.58	10.93	10.56	101°.85	126 .27	126.92	114.15	125.10	137.07	131.60
August . . .	15.35	19.27	17.64	17.21	13.56	8.42	9.03	105 .23	105 .88	105.23	127.98	127.05	144.12	142.87
September. .	17.15	26.65	29.30	20.18	14.11	8.92	10.08	102 .22	121 .37	126.37	123.75	111.42	135.10	120.93
October. . .	16.72	27.41	29.26	20.80	13.69	13.05	11.84	98 .82	109 .25	117.07	107.12	108.95	107.37	105.47
November . .	15.05	26.12	32.26	20.00	9.94	9.40	8.37	107 .77	121 .00	120.97	101.33	109.43	111.98	104.22
December . .	—	23.58	13.44	18.36	6.39	8.67	10.82	—	119 .63	96.97	102.53	103.57	109.85	97.27
Year. . . .	—	—	22.58	18.41	13.91	10.94	11.50	—	—	114.23	110.67	113.72	120.68	116.43

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TABLE 49. Solar Diurnal Variation — Vertical Force.

Constants of the Double-Periodic Formula. Unity = 0.00001 c. g. s.

	A_2							C_2						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	15.26	8.37	9.00	5.87	9.70	—	—	271°.17	296°.88	255°.58	260°.77	276°.22
February . .	—	—	11.93	15.31	8.88	8.46	14.11	—	—	276.88	250.42	270 83	272.92	263.53
March . . .	—	—	12.85	10.84	13.02	10.79	8.32	—	—	271.85	263.08	266.50	291.77	269.20
April . . .	—	12.84	12.05	12.42	9.89	7.58	7.02	—	276°.83	265.42	282.97	270.28	278.87	269.68
May. . . .	—	7.25	7.66	7.05	4.85	3.89	4.13	—	277 .38	263.87	268.65	260.35	246.30	244.48
June. . . .	—	5.99	4.99	6.44	5.77	3.36	4.41	—	271 .50	275.10	275.17	267.58	258.97	252.38
July. . . .	7.66	5.79	4.76	4.67	5.31	3.41	3.91	269°.68	288 .23	273.62	260.93	260.38	284.08	278.33
August. . .	6.67	7.66	6.94	3.93	4.68	0.58	2.17	254 .13	255 .77	271.45	261.52	247 35	207.98	281.20
September . .	9.28	10.74	10.58	6.75	7.62	3.67	5.21	264 .68	259 .67	274.62	269.37	258.55	258.33	257.73
October. . .	9.95	15.44	13.83	13.66	9.35	8.98	8.92	258 .58	270 .88	268.62	258.93	259.53	263.33	260.13
November . .	9.35	14.60	14.43	10.20	6.30	6.80	7.28	268 .35	268 .17	285.32	255.08	244.38	271.57	253.18
December . .	—	11.87	8.75	10.00	3.52	4.86	5.45	—	269 .45	270.55	275.65	255.05	266.23	255.47
Year. . . .	—	—	10.28	8.90	7.28	5.53	6.63	—	—	272.65	267.25	261.15	270.73	263.53

TABLE 50. Solar Diurnal Variation — Total Force.

Constants of the Single-Periodic Formula. Unity = 0.00001 c. g. s.

	A_1							C_1						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	12.26	10.05	10.44	8.47	8.16	—	—	279°.50	295°.05	298°.93	299°.77	302°.40
February . .	—	—	10.59	10.52	7.59	7.63	8.39	—	—	285.13	281.17	305.15	305.53	290.72
March . . .	—	—	15.00	13 12	11.05	9.96	9.51	—	—	284.42	287.93	299.78	297.13	297.62
April . . .	—	14.27	15.45	15.18	11.85	10.79	12.58	—	290°.82	288.78	295.95	304.35	309.15	305.42
May. . . .	—	10.42	14.21	13.88	12.01	11.01	10.47	—	304 .23	294.68	298.07	306 65	313.28	305.22
June. . . .	—	12.47	14 47	12.24	12.00	10.37	9.50	—	295 .73	293.93	300.43	297.95	295.92	296.70
July. . . .	14.48	11.66	12.55	11.99	12.58	11.31	10.12	297°.82	290 .77	296.60	296.35	296 73	298.68	290.92
August. . .	16.29	12.80	14.13	14.93	13.16	14.61	12.43	296 .50	292 .38	303.22	308.27	302.15	305.72	297.80
September. .	14.63	13.73	11.55	14.94	13.71	14.83	13.78	291 .27	295 .93	282.55	298.72	304.17	308.55	302.02
October. . .	15.33	13.29	8.47	11.89	10.47	11.25	8.73	300 .10	281 .53	294.10	304.37	313.25	305.67	309.07
November . .	12.06	12.37	4.29	7.88	8.19	9.23	9.20	315 .07	283 .88	271.87	307.82	317.03	309.38	325.10
December . .	—	10.84	10.17	6.26	6.91	8.55	6.60	—	270 .60	308.27	297.15	325.63	304.77	322.67
Year. . . .	—	—	11.79	11.81	10.74	10.63	9.81	—	—	291.17	297.68	304.83	304.70	303.13

TABLE 51. Solar Diurnal Variation — Total Force.

Constants of the Double-Periodic Formula. Unity = 0.00001 c. g. s.

	A_2							C_2						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	6.09	4.81	3.13	4.56	2.24	—	—	118°.92	116°.78	127°.48	133°.90	136°.30
February . .	—	—	5.30	5.01	3.78	3.04	2.98	—	—	126.08	139.62	151.63	128.12	130.67
March . . .	—	—	6.16	5.42	3.36	3.65	4.30	—	—	123.38	122.42	128.82	141.08	126.93
April . . .	—	3.99	7.76	5.94	5.48	3.90	5.97	—	124°.95	126.73	134.95	141.07	145.48	136.87
May. . . .	—	5.95	7.51	6.30	6.35	5.94	5.40	—	132 .88	134.72	142.35	142.45	154.72	147.62
June. . . .	—	6.12	7.59	5.72	5.93	4.46	4.19	—	127 .70	131.72	128.97	134.53	139.93	138.92
July. . . .	7.67	6.23	6.65	6.79	6.66	5.58	5.02	134°.72	132 .58	134.55	139.90	135.13	139.98	135.88
August. . .	9.84	6.75	8.16	8.47	6.29	8.34	6.26	134 .62	140 .10	138.20	143.05	141.33	146.98	131.03
September. .	6.83	8.25	7.75	7.16	7.48	7.43	6.57	136 .67	144 .80	141.55	137.80	145.35	137.57	141.98
October. . .	6.06	6.19	4.90	5.08	5.19	5.45	3.66	138 .25	134 .85	155.23	165.25	155.87	149.65	166.70
November . .	8.34	4.20	1.32	3.75	4.50	4.16	4.77	159 .45	122 .38	170.08	174.30	162.53	153.80	168.40
December . .	—	6.24	4.68	1.78	4.05	3.95	3.35	—	127 .43	149.50	164.80	163.72	155.83	177.33
Year. . . .	—	—	6.05	5.34	5.10	4.99	4.41	—	—	134.67	140.23	144.03	144.32	143.88

TABLE 52. Solar Diurnal Variation — Inclination.

Constants of the Single-Periodic Formula.

	A_1							C_1						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	2′.83	1′.63	1′.98	1′.46	1′.81	—	—	105°.00	111°.80	109°.42	112°.40	112°.35
February . .	—	—	2.57	2.58	1.90	1.62	2.07	—	—	103.67	94.42	102.35	112.93	106.73
March . . .	—	—	3.03	2.26	2.48	1.97	1.74	—	—	107.30	102.32	108.08	115.25	112.62
April . . .	—	2′.82	3.05	2.76	2.02	1.71	1.75	—	112°.78	109.75	114.12	116.78	126.13	122.77
May. . . .	—	2 .30	2.31	2.27	1.70	1.33	1.31	—	118 .18	113.92	116.28	128.32	129.92	129.67
June. . . .	—	2 .33	2.40	2.12	1.75	1.38	1.37	—	126 .65	123.13	122.57	127.47	125.73	127.17
July. . . .	2′.21	2 .53	2.17	2.15	1.90	1.49	1.41	106°.28	123 .08	124.22	114.78	122.65	131.12	125.15
August . . .	2 .14	2 .37	2.25	2.27	1.83	1.40	1.35	108 .92	107 .47	109.98	128.23	125.52	135.83	133.00
September. .	2 .25	3 .10	3.21	2.53	1.90	1.47	1.54	104 .77	120 .37	122.72	122.42	115.42	132.10	121.33
October. . .	2 .21	3 .14	3.10	2.44	1.70	1.69	1.46	105 .10	107 .83	116.72	110.70	115.32	112.62	111.52
November . .	1 .64	2 .95	3.18	2.18	1.25	1.27	1.12	113 .97	117 .90	119.40	105.12	117.00	117.45	117.92
December . .	—	2 .63	1.65	1.98	0.84	1.17	1.22		114 .72	104.97	104.42	117.57	114.47	107.02
Year. . . .	—	—	2.62	2.23	1.75	1.48	1.50	—	—	113.63	112.23	116.67	121.90	118.42

TABLE 53. Solar Diurnal Variation — Inclination.

Constants of the Double-Periodic Formula.

	A_2							C_2						
	1882	1883	1884	1885	1886	1887	1888	1882	1883	1884	1885	1886	1887	1888
January. . .	—	—	1′.67	0′.98	0′.93	0′.68	0′.98	—	—	275°.58	297°.17	262°.18	274°.28	279°.90
February . .	—	—	1.32	1.52	0.92	0.90	1.40	—	—	281.90	258.07	279.78	277.95	267.50
March . . .	—	—	1.44	1.20	1.32	1.14	0.93	—	—	277.25	270.23	270.87	295.73	276.38
April . . .	—	1′.36	1.40	1.39	1.08	0.83	0.85	—	280°.28	274.87	288.98	280.10	287.72	282.73
May. . . .	—	0 .90	0.95	0.85	0.63	0.45	0.47	—	286 .98	279.53	284.03	283.40	281.63	274.35
June. . . .	—	0 .80	0.76	0.82	0.74	0.44	0.51	—	283 .68	290.18	284.70	282.55	280.18	271.92
July. . . .	0′.98	0 .80	0.69	0.64	0.70	0.54	0.55	283°.87	296 .33	289.93	284.12	280.25	298.92	292.40
August. . .	0 .92	0 .89	0.93	0.63	0.57	0.35	0.46	277 .98	269 .75	287.67	292.33	274.82	315.70	298.57
September. .	1 .08	1 .20	1.24	0.87	0.89	0.58	0.66	277 .27	275 .53	286.12	284.68	278.30	287.77	281.03
October. . .	1 .09	1 .65	1.39	1.30	0.95	0.95	0.85	270 .58	277 .22	276.98	268.85	273.03	276.82	271.02
November . .	0 .93	1 .52	1.37	0.94	0.59	0.73	0.69	279 .88	271 .73	287.45	265.10	263.77	284.28	270.92
December . .	—	1 .33	0.94	0.96	0.38	0.54	0.50	—	276 .43	281.20	280.15	283.25	283.80	272.32
Year. . . .	—	—	1.17	0.99	0.80	0.67	0.73	—	—	281.43	278.17	275.52	285.93	276.92

OBSERVATIONS

MADE AT THE

MAGNETICAL AND METEOROLOGICAL OBSERVATORY

AT

BATAVIA.

PUBLISHED BY ORDER OF THE GOVERNMENT OF NETHERLANDS INDIA,

UNDER THE DIRECTION OF

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PREFACE.

1. During the year 1889, the twenty-fourth since on January the first of 1866 the observations here were started by Dr. BERGSMA, the hourly eye-observations of Atmospheric Pressure, Temperature, Rain, Humidity, Cloudiness of the sky, the three elements of Terrestrial Magnetism (WILD's Magnetometers), and the half-hourly of Solar Radiation have been continued without interruption, and the self-recording instruments for the continuous registration of Wind (direction and velocity), Bright Sunshine (JORDAN), Rain, Atmospheric Electricity (MASCART), Solar Radiation (RICHARD recorder), and the three magnetic elements (Magnetograph) respectively, have been maintained in regular operation throughout the year.

The records of Atmospheric Electricity are the only ones that suffered some interruption at times, owing to the manyfold causes of disturbance in the regular operation of the different parts of the rather complicated arrangement. The Electrometer itself, shut out from disturbing influences by means of a glass bell afforded very satisfactory results, the blanks in the records being mostly due to obstruction of the discharging tube and defiency of insulation occasioned by cobwebs.

An important improvement in the insulation of the Water-collector has been obtained simply by resting this vessel upon two boards separated by four common stearine candles, the perfect insulating power of which, even during prolonged wet weather, is controlled every morning by charging the whole apparatus, connected with a gold-leaf electroscope, by means of a small WIMSHURST machine.

2. The records and results of the magnetical observations have been printed and deduced in conformity with the plan adopted in Volume VII, with addition of the constants and components of the periodical formulae representing the diurnal variation of the different elements and magnetic quantities, which henceforth will form a regular part of the summarizing results.

Since the publication of this Volume VII, in the preface to which the method of reducing the magnetical records adopted in these publications was commented, Dr. WILD has explained and advocated the method followed by him, which was delineated in general outlines in the sessions of the *Polar Committee* at *Vienna* in 1884, and subjected to the opinion of the *Comittee* ad hoc of the *British Association* (Report 1885).

Recently Dr. WILD has issued a paper on the same subject in the *Mélanges physiques et Chimiques* of the *Russian Academy* of *Sciences* (V. XIII. 1), whilst the outcome of the elaboration, according to WILD's principles, of the magnetical observations made at the *Petersburgh* Observatory was published by Dr. MÜLLER in the last Volume (XII) of the *Repertorium für Meteorologie*.

The question required careful reconsideration, therefore, whether Mr. WILD's method affords essential advantages over the method according to which the *Batavia* observations are worked out.

The objections however, to which Dr. WILD's method is open in my opinion, and which may be brought under the following heads, have made me adhere to the old method. I quite agree with Dr. WILD that, practically speaking, a doubt can hardly arise as to which days are to be selected

as undisturbed: and for such curves as are obtained at *Batavia*, where, even during periods of high solar activity, disturbed days are always found to remain a minority, the method would certainly fully answer the purpose. In such a case, however, the method practised here of omitting the disturbed days in calculating the mean monthly diurnal variation must of necessity lead to the same results.

For stations established in high latitudes, however, where disturbed days are far more prevalent, a few selected smooth curves can hardly be considered to give a fair image of the mean diurnal variation. The method would be a quite unobjectionable one, if the diurnal variation were not a quantity subject to large fluctuations: as it is however, the diurnal variation, at least at *Batavia*, where, owing to the absence of large disturbances, the general character of the curve speaks more to the eye than anywhere else, oscillations varying between 0.5 and 1.5 of the average values frequently occur on days when the curve is running on without appreciable discontinuity. When, therefore, as is exhibited on Table I p. 53 of M^{r}. Wild's paper, the normal variation for several months is deduced from 3 or 4 days, the average value gathered from these selected days cannot be taken as representing true normals.

On the other hand it is not possible to agree with D^{r}. Wild in his objections to *Sabine's* method, coming to this that the latter is not calculated to show the peculiar diurnal variation which disturbances are subject to, owing to the fact that the normal diurnal variation calculated from all observations is modified by the effect of the disturbances. As a fact Sabine does not discard disturbed *days*, by which method only a few days will generally remain, but disturbed *hours*, the percentage of which must be much smaller of course, because only a few days show disturbing action during the whole period of 24 hours; therefore the calculated means will be influenced by disturbances, though to a certain degree only: the second, third etc. approximation however will come nearer to the true normals in a perceptibly convergent series, whilst the finally adopted means will be well-nigh free from disturbing influences altogether. In many cases when disturbances are not frequent the exemption will virtually be complete. It has been proved, moreover, by M^{r}. Chambers (Bombay magn. and meteor. observ. 1879—1882, Appendix II p. 88) that the ratios by which the periodical variations of disturbance in different hours are characterized and expressed, do not undergo any material change by even considerable differences in the amount of the separating value.

That Sabine's method in this respect is not inferior to Wild's may also be inferred from the fact that the same results which M^{r}. Wild arrives at for *Petersburgh* have been obtained for *Toronto* and *Hobarton* by Sabine.

By extending the inquiry to the observations made at *Kew*, *Nertschinsk* and *Pekin*, the latter has proved, moreover, that the two distinct forms of this diurnal progression observed at *Toronto* and *Hobarton* are not typical for both hemispheres, but that in Northerly latitudes stations may be found as well where the diurnal variations of disturbance will assume the form of the *Hobarton* type, and that, owing to a prevalence of Westerly over Easterly disturbances on certain hours of the day, this diurnal progression will next to disappear at aequatorial stations.

No more do I subscribe to M^{r}. Wild's statement that it has been assumed by magneticians hitherto that the decennial period observed in the diurnal variation has to be ascribed to an increase of disturbances during years of increasing solar activity (l. c. p. 58), and that it is the new method of separating disturbances which throws a light on this question.

With regard to this the elaborate investigations of Bergsma and Chambers published in Volume III of the *Batavia* Observations and in the above mentioned publication of the *Colaba* Observatory respectively, do not leave room for doubt.

Our final conclusion, therefore, comes to this that WILD's method, as well as all other methods, which necessarily tend to come to an approximate solution of the problem, must be pronounced liable to the qualification which SABINE gives of his own method in his usual unassuming manner (*Toronto* observations, Vol. I. p. XXIII):

»The process which has been adopted is suited to make known the character, rather than to give the amount of the disturbances, which they (the disturbing forces) occasion, and there can be little doubt that we do not obtain by it the whole effect of the disturbing cause".

I am convinced, therefore, that the same interesting conclusions which M^r. WILD arrives at for *Petersburgh* would have been obtained if SABINE's method had been applied instead, and that also at this station here the differences between the normal variations given in these Volumes and those obtained by any other method would prove to be immaterial. The process practised here differs from SABINE's only in this respect that it endeavours to reckon with the different values of the diurnal variation on different days, and also with the larger fluctuations as exhibited by the daily means, quantities of the second order which are neglected when we apply the method of SABINE.

This improvement, if improvement it be, has no influence though on the monthly normal values of the daily variation, but only on the individual value of the disturbances as given in Tables D.

3. In the Appendix to this Volume the sums are given of the 24 departures from the daily mean value for every day of the years 1875—1888 of the magnetical elements at *Petersburgh*, as calculated from the Tables published in the *Russian Annals*.

Those quantities have been made use of in an inquiry into the 26-day period recently published in the *Transactions* of the *Amsterdam Academy* of *Sciences*.

The said Tables may prove of a more general interest yet in future, in as much as a comparison of these quantities with those published in Tables D of these Volumes will bring out all simultaneous disturbances at two stations widely differing in latitude.

It may be stated as a well proved fact that disturbances will occur of two altogether different kinds viz. local disturbances, which exhibit a diurnal variation characteristic of several groups of stations, and cosmical disturbances. The latter, as occurring at the same absolute time over the whole surface of the globe, cannot possibly be subjected to any such periodical law.

Therefore the first thing to be done on studying the phenomenon of disturbances must be the careful elimination of those cosmical disturbances.

I venture to think that the publication of those Tables will facilitate the task of the *Committee* of the *British Association* by enabling them at one view to select suitable days for the comparison of simultaneous curves of different observatories (Report = 1887). At the same time they give exclusive evidence of the fact, questioned in the Report for 1885, that the diurnal variations of the Horizontal and Vertical Force are found to vary, as does the diurnal range of the Declination, with the state of the sun's surface.

The results obtained at this Observatory and especially the constants of the periodical formulae published in the fore-going and this Volume point to the same aswer in this respect.

4. In latter years the theoretical and practical investigations of FERREL, SPRUNG, HILDEBRANDSSON and others have given fresh interest to the observations of the upper currents of the atmosphere.

Observations of Cirri at typical tropical stations would be highly interesting indeed, and it would seem a deficiency of these Annals that no observations of upper clouds are published here.

In the May number of the *Meteorologische Zeitschrift* M^r. SPRUNG in fact mentions »die stets ausführbaren Cirrusbeobachtungen" and draws attention once more to the desirability of observations respecting this phenomenon at tropical stations. For many years past D^r. FIGEE and the author have been in the regular habit of making cloud-observations, but it was thought useless to publish the corresponding records because we very rarely succeeded in observing true cirri.

During the months of the East-monsoon the sky is very hazy, probably owing to particles of dust floating in the air in such numbers as to prevent observation of the mountains of *Mid-Java*, and this though the latter are comparatively near.

Cirri, if indeed they do occur, will hardly be observable under such circumstances; besides, the observation of constant Easterly currents would be of a problematic value only.

During the West-monsoon the atmosphere is clear: high-floating clouds are never seen however, but heavy cumuli moving Eastward are invariably observed about eight o'clock a. m.

During the night hours and before sunrise in the early morning cirro-cumuli may be observed from time to time, but they seldom exhibit any movement and evidently they sink lower and condense into cumuli as soon as the sun rises.

Westerly winds of comparatively great stress are observed at sea during the hours of the night as well as in the day-time; even near the shore, as at *Batavia*, an almost absolute calm is observed during the hours of night, not only near the surface, but also in the regions of the cumuli and cirro-cumuli. This fact seems inconsistent with KÖPPEN's explanation of the stagnant condition of the atmosphere observed during the hours of night at inland stations (*Zeitschrift* XIV).

Hitherto the cloud-observations have been made by means of eye-observation only, but they will be continued by means of a FINEMAN nephoscope.

The succes, however, being a dubitable one, I think it a better plan to establish a system of regular observations roundabout the *Smeroe*, *Java's* most elevated vulcano, in order to ascertain JUNGHUHN's statement, that the smoke exhalated by that vulcano at a height of about 5700 Meters gives evidence of a South-East current in those atmospheric strata throughout the whole year.

September 1890. VAN DER STOK.

METEOROLOGICAL OBSERVATIONS

BATAVIA

1889.

BAROMETRIC PRESSURE.

BAROMETER AT 0° C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY. 1	9.56	9.08	8.94	8.79	9.14	9.79	10.04	10.31	10.40	10.14	9.59	9.05	—
2	9.89	9.37	8.74	8.46	8.69	9.56	9.96	10.41	10.30	10.12	9.89	9.43	—
3	9.84	9.44	9.30	9.10	9.54	10.10	10.41	10.40	10.29	10.25	9.67	9.23	—
4	9.35	9.01	8.86	9.36	9.60	9.91	10.51	10.54	10.75	10.71	10.52	10.10	—
5	9.55	8.96	8.76	8.78	9.18	9.65	10.01	10.51	10.29	10.41	10.06	9.79	—
6	10.80	10.51	10.83	10.49	10.81	11.21	11.91	12.23	12.39	12.24	11.79	11.83	—
7	11.61	11.41	11.19	11.01	11.02	11.49	11.84	12.14	12.34	11.94	11.59	11.02	—
8	10.75	10.31	10.10	9.96	10.47	11.06	11.54	11.81	11.80	11.69	11.18	10.72	—
9	10.25	9.86	9.60	9.76	9.87	10.44	11.41	11.91	11.95	11.73	11.12	10.71	—
10	10.70	10.16	9.83	9.79	9.95	10.51	11.20	11.59	11.80	11.64	11.28	10.82	—
11	9.79	9.36	9.35	9.38	9.31	9.44	10.06	10.44	10.31	10.17	9.78	9.32	—
12	8.90	8.51	8.44	8.51	8.71	9.39	9.86	9.91	9.82	9.59	9.14	8.39	—
13	9.58	8.91	8.93	9.09	9.65	9.92	10.52	10.77	10.89	10.79	10.72	10.19	—
14	9.86	9.64	9.29	9.15	9.20	9.33	9.73	10.23	10.54	10.49	9.83	9.27	—
15	9.35	9.17	8.82	8.64	9.16	9.84	10.50	10.81	11.13	10.66	10.27	9.68	—
16	9.28	9.00	8.92	9.08	9.39	9.80	10.58	10.48	10.75	10.56	10.02	9.57	—
17	8.98	8.84	8.74	8.65	8.81	9.18	9.84	9.86	9.86	9.77	9.67	9.32	—
18	9.48	9.33	8.99	9.15	9.48	9.45	9.80	10.16	10.42	10.13	9.83	9.25	—
19	9.74	9.50	9.49	9.60	9.89	10.05	10.36	10.68	10.60	10.60	10.47	10.16	—
20	9.70	9.47	9.71	9.84	9.85	10.36	11.04	11.15	10.90	10.90	10.61	9.59	—
21	10.04	9.76	9.64	9.70	9.98	10.45	10.94	11.46	11.24	11.00	10.52	9.59	—
22	9.84	9.20	8.73	9.04	9.84	10.40	10.90	10.86	10.53	9.68	9.52	8.84	—
23	9.35	8.88	8.88	8.79	9.04	9.44	9.86	10.20	10.24	9.63	9.15	8.66	—
24	8.50	8.20	8.50	8.65	9.16	9.46	10.23	10.86	10.98	10.77	10.23	9.65	—
25	9.80	9.01	8.93	9.14	9.75	9.98	10.87	11.17	11.56	11.45	10.73	10.51	—
26	10.61	10.11	9.83	9.63	9.88	10.43	11.33	11.70	12.11	11.74	11.16	10.52	—
27	10.78	10.49	10.34	9.90	10.34	10.75	11.36	11.73	11.62	11.36	10.87	10.12	—
28	9.99	9.91	9.53	9.49	9.65	9.93	10.58	11.24	11.20	11.22	10.59	10.08	—
29	9.71	9.16	9.23	9.25	9.47	9.79	10.70	10.71	11.00	10.95	10.46	10.00	—
30	9.15	8.76	8.53	8.18	8.68	9.23	9.94	10.55	10.35	10.13	9.88	9.57	—
31	9.89	9.50	9.46	9.08	9.19	9.70	10.16	10.46	10.71	10.78	10.58	9.92	—
Hourly Means.	9.83	9.45	9.30	9.27	9.57	10.00	10.58	10.88	10.94	10.75	10.35	9.84	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY. 1	8.66	8.20	7.86	7.46	7.62	8.03	9.28	9.93	10.69	10.69	10.33	10.16	9.32
2	8.62	7.87	7.61	7.60	7.81	8.38	9.39	10.13	10.81	10.68	10.48	10.14	9.35
3	8.42	7.81	7.22	7.40	7.99	8.90	9.42	9.56	9.60	9.46	9.69	9.85	9.29
4	9.49	9.12	8.76	8.78	9.22	9.33	9.33	9.90	10.56	10.68	10.39	9.95	9.78
5	9.02	8.35	7.98	8.41	9.06	9.79	10.38	10.93	11.27	11.49	11.65	11.53	9.83
6	11.37	10.46	10.31	10.44	11.10	11.48	12.14	12.55	12.85	12.73	12.64	12.40	11.56
7	10.20	9.65	8.79	9.27	9.54	9.98	10.98	11.24	11.77	11.90	11.95	11.64	11.06
8	9.97	8.72	8.18	8.40	8.42	8.87	9.80	10.40	10.58	10.70	10.74	10.43	10.28
9	9.82	9.03	8.45	8.33	9.08	9.69	9.99	10.10	10.60	10.55	10.72	10.69	10.24
10	10.07	9.28	8.52	8.30	8.49	9.01	9.51	9.95	10.52	10.88	10.91	10.45	10.22
11	8.57	7.62	7.11	6.52	7.31	7.68	8.47	8.83	9.59	10.09	9.92	9.54	9.08
12	7.88	7.41	6.76	6.53	7.05	7.65	8.07	8.78	9.53	10.54	10.17	9.66	8.72
13	9.22	8.22	7.72	7.81	8.22	8.89	9.16	9.52	10.47	10.79	10.81	10.59	9.64
14	8.31	7.38	7.02	7.00	8.26	8.45	8.62	9.24	9.83	9.89	9.84	9.70	9.17
15	8.86	7.72	7.13	6.96	7.42	7.63	8.40	9.28	9.66	9.79	9.83	9.50	9.18
16	9.12	8.32	7.32	7.60	7.96	8.67	9.45	9.65	9.58	9.61	9.54	9.32	9.32
17	8.64	8.04	7.35	7.73	8.35	8.73	9.10	9.31	9.71	9.79	9.63	9.54	9.06
18	8.51	8.03	7.75	7.88	8.26	8.79	9.61	10.06	10.35	10.79	10.64	10.31	9.44
19	9.47	8.57	8.33	8.07	8.62	9.33	9.45	10.04	10.34	10.03	10.08	9.86	9.72
20	9.17	8.67	7.83	7.98	8.28	8.72	9.52	10.32	10.85	11.09	10.97	10.57	9.88
21	8.90	8.58	7.94	8.91	9.98	10.73	11.06	11.46	11.38	11.64	11.37	10.78	10.29
22	8.33	8.31	7.67	7.44	8.20	9.08	9.85	10.50	10.35	10.23	10.05	9.89	9.47
23	8.07	6.86	6.43	6.92	7.53	8.45	9.01	8.97	9.84	10.48	10.43	9.04	8.92
24	9.21	8.66	8.24	8.02	8.88	9.45	9.89	10.26	10.60	10.69	10.57	10.34	9.58
25	10.09	9.11	8.81	8.43	9.16	9.57	10.46	10.92	11.39	11.80	11.78	11.30	10.24
26	10.28	9.43	8.73	8.70	9.03	9.79	10.40	11.25	11.69	11.87	11.78	11.39	10.56
27	9.77	9.06	8.32	8.06	8.62	9.11	10.06	10.75	10.72	10.75	10.71	10.33	10.25
28	9.02	8.78	7.61	7.38	7.83	8.90	9.32	9.59	10.33	10.59	10.27	10.24	9.72
29	8.92	8.20	7.43	7.37	7.41	7.63	8.15	8.79	9.14	9.47	9.66	9.53	9.26
30	9.13	8.35	7.79	7.57	8.44	8.88	9.71	10.01	10.40	11.07	11.07	10.73	9.42
31	9.10	8.73	8.18	7.73	7.89	8.24	8.87	9.19	9.41	9.79	10.01	9.71	9.43
Hourly Means.	9.17	8.47	7.91	7.90	8.42	8.96	9.58	10.05	10.46	10.66	10.60	10.29	9.72

STANDARD THERMOMETER.

JANUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	75.0	75.0	75.4	75.6	76.0	75.4	76.0	77.7	80.5	83.7	85.7	87.3	—
2	77.1	76.7	76.0	75.6	75.4	75.0	76.2	78.4	81.2	83.1	86.1	86.7	—
3	77.6	77.0	76.1	75.5	75.1	74.8	75.1	76.8	79.0	81.1	84.4	85.4	—
4	75.1	75.0	75.1	75.1	74.0	74.3	74.6	75.1	76.6	78.7	80.3	82.5	—
5	75.7	75.5	75.3	75.0	75.0	75.0	75.9	77.0	80.2	79.9	80.0	81.8	—
6	75.4	75.1	74.8	74.5	74.7	75.0	75.3	77.1	78.1	80.4	84.1	78.9	—
7	74.5	74.2	73.8	73.6	73.4	73.0	73.6	76.2	79.2	82.0	85.2	86.0	—
8	75.5	75.0	75.0	74.4	74.0	73.8	74.3	76.0	78.6	81.9	85.4	87.5	—
9	76.0	75.1	74.8	74.5	74.6	74.2	74.9	77.0	80.6	83.2	84.8	82.2	—
10	75.4	75.0	74.7	74.7	74.5	74.0	74.3	75.6	77.2	79.7	83.2	85.3	—
11	76.2	75.6	75.0	74.4	73.6	73.4	73.7	75.2	78.6	81.4	83.2	86.0	—
12	75.3	74.9	74.5	73.8	73.8	73.8	75.0	78.3	80.8	83.6	86.3	88.4	—
13	78.0	77.2	77.0	76.7	76.7	76.9	76.7	77.6	79.0	80.2	81.4	84.5	—
14	77.8	77.4	77.2	77.0	76.8	76.6	76.8	77.6	79.8	83.3	86.2	88.0	—
15	76.7	76.7	76.2	75.7	75.1	75.1	75.7	78.0	79.2	81.7	83.3	84.7	
16	76.4	76.1	76.2	76.0	76.0	75.8	76.7	79.9	83.3	84.8	86.2	85.8	
17	75.7	75.7	75.5	75.4	75.2	74.9	75.7	78.2	81.6	81.4	79.0	80.2	
18	75.7	75.3	75.0	74.8	74.2	74.0	74.6	77.8	80.0	81.8	83.0	85.4	—
19	77.1	76.7	76.1	75.8	75.1	74.7	76.0	79.0	82.0	83.0	85.7	84.5	—
20	76.8	76.0	75.8	75.2	75.0	75.0	75.7	78.7	81.8	83.9	82.7	85.7	—
21	78.6	78.0	77.7	77.3	77.0	76.8	77.8	79.6	81.0	82.0	83.6	86.8	—
22	75.7	75.2	74.7	75.1	74.9	74.9	75.7	77.4	78.6	81.4	83.5	85.8	—
23	75.8	75.6	75.4	75.2	75.3	75.2	75.7	76.7	78.5	82.0	81.8	84.8	—
24	75.5	75.6	75.4	75.4	75.0	74.8	75.1	76.4	77.7	77.0	79.8	81.5	—
25	77.0	76.8	76.4	76.2	73.6	74.2	74.7	75.0	76.5	77.8	80.0	80.6	—
26	75.4	75.4	75.3	75.3	75.3	75.5	75.9	77.5	79.4	81.0	83.4	83.0	—
27	77.4	77.2	76.6	76.2	75.8	75.5	76.0	78.7	80.7	82.4	83.3	85.0	—
28	78.9	78.0	77.7	77.3	77.2	77.0	77.6	78.3	80.7	82.1	84.2	85.0	—
29	78.5	77.6	77.2	76.8	76.5	76.3	76.5	77.0	79.9	82.0	83.6	78.7	—
30	78.0	78.0	78.3	78.1	78.1	77.6	75.5	75.3	76.0	77.2	78.7	80.5	—
31	76.7	76.2	76.0	75.8	75.4	75.1	75.9	76.8	79.0	79.8	81.3	81.0	—
Hourly Means.	76.47	76.09	75.81	75.55	75.24	75.08	75.59	77.29	79.53	81.40	83.21	84.18	—

JANUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	87.2	89.1	87.2	87.0	85.3	83.5	82.6	81.4	79.4	78.9	78.0	77.5	80.85
2	89.0	90.4	85.8	80.9	80.6	79.3	78.4	78.3	77.8	77.9	77.6	77.6	80.05
3	85.0	84.6	85.2	84.3	83.0	81.7	76.9	76.8	75.6	75.2	75.4	75.1	79.03
4	83.7	83.7	84.0	80.6	78.0	76.5	76.6	76.4	76.2	76.4	76.2	76.0	77.53
5	84.7	84.9	85.5	83.0	80.0	78.9	78.1	77.7	77.5	77.0	76.6	75.8	78.58
6	78.0	80.0	76.8	77.1	77.7	77.4	76.8	76.2	76.0	75.9	75.5	75.1	76.91
7	85.2	84.0	85.0	83.0	79.8	79.3	78.2	77.8	77.5	77.0	76.6	76.2	78.51
8	84.6	85.2	85.1	80.0	80.2	80.5	79.8	78.6	78.0	77.6	76.4	76.2	78.90
9	83.5	83.8	84.5	83.3	79.6	76.6	76.6	77.1	77.0	76.5	76,0	75.6	78.42
10	85.3	84.6	83.7	84.7	82.8	81.9	81.0	80.4	79.2	78.3	77.1	76.5	79.13
11	87.3	85.6	84.7	84.3	84.0	81.2	80.0	78.7	77.7	77.0	76.5	76.0	79.14
12	88.0	86.4	86.8	86.6	85.0	84.2	83.2	82.1	80.9	79.8	78.9	78.3	80.78
13	85.2	85.2	84.8	85.4	84.0	82.1	80.4	79.7	79.1	79.1	78.6	78.2	80.15
14	89.6	89.8	87.6	86.7	80.5	77.2	77.1	76.4	77.0	76.8	76.4	76.4	80.25
15	85.7	87.0	87.7	84.1	82.6	82.3	81.7	81.2	80.6	80.0	78.2	77.0	80.26
16	85.7	84.1	86.2	85.3	84.7	83.2	77.3	76.9	76.0	76.0	76.0	75.9	80.02
17	81.3	82.1	83.6	83.1	83.0	81.0	78.9	78.0	77.5	76.8	76.3	76.1	78.59
18	86.2	86.4	85.0	83.6	83.7	83.1	81.3	80.1	79.4	78.7	78.0	77.7	79.78
19	83.0	83.5	83.3	84.2	84.4	83.4	81.9	80.4	79.7	78.9	78.1	77.4	80.16
20	87.0	86.2	86.5	85.7	85.7	84.0	83.0	82.6	81.4	80.6	79.7	79.0	80.99
21	87.2	86.6	86.6	79.2	77.0	77.0	77.3	76.8	76.3	76.0	76.3	76.0	79.52
22	85.5	80.2	79.8	80.3	80.1	79.8	79.6	78.8	78.0	77.1	76.7	76.1	78.54
23	84.3	85.1	85.0	83.9	82.6	82.4	79.7	77.4	75.6	75.0	75.4	75.4	78.91
24	82.9	82.6	80.6	81.1	81.1	80.6	80.0	79.0	78.2	77.5	77.2	77.0	78.21
25	82.5	83.4	83.0	83.4	82.4	77.5	77.1	77.1	76.7	76.5	76.1	75.7	77.93
26	82.7	83.6	83.4	83.0	82.7	80.0	78.9	78.4	78.1	77.8	77.8	77.7	79.02
27	85.6	85.7	85.4	83.4	82.8	82.2	81.0	80.6	80.2	80.0	79.5	79.1	80.43
28	85.0	85.2	84.6	83.2	82.6	82.3	81.6	81.0	80.7	80.3	79.5	79.0	80.79
29	81.2	83.0	84.5	84.4	84.1	82.6	81.5	80.8	80.0	79.4	79.0	78.6	79.99
30	83.6	82.8	83.8	84.7	80.4	78.2	77.7	76.7	77.0	77.4	77.2	76.8	78.65
31	82.2	83.1	82.1	82.1	81.8	81.1	80.4	79.9	79.2	79.0	78.9	78.9	79.07
Hourly Means.	84.77	84.77	84.45	83.28	82.01	80.68	79.50	78.82	78.18	77.75	77.28	76.90	79.33

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	930	914	898	889	865	914	915	876	789	727	673	692	—
	2	941	924	923	931	939	947	940	909	792	754	695	678	—
	3	941	941	915	931	939	947	947	924	878	813	751	726	—
	4	957	956	957	957	938	956	965	966	924	847	789	724	—
	5	948	957	957	965	965	956	906	891	842	841	834	764	—
	6	948	956	956	965	965	947	939	891	861	789	722	853	—
	7	956	965	965	965	965	964	965	916	840	779	691	688	—
	8	957	956	947	956	956	956	947	899	838	737	628	606	—
	9	873	905	913	921	921	921	930	859	761	672	677	793	—
	10	957	956	956	956	956	965	965	948	892	788	699	672	—
	11	906	914	905	930	938	929	921	898	838	756	754	656	—
	12	930	939	939	947	956	956	956	846	790	720	643	562	—
	13	892	907	907	916	906	916	924	917	870	804	763	737	—
	14	908	925	932	932	940	948	949	908	818	719	683	608	—
	15	924	924	931	948	956	956	940	861	863	807	748	703	—
	16	874	899	906	915	923	923	916	796	685	651	662	712	—
	17	931	923	931	939	947	956	948	893	815	784	885	880	—
	18	948	947	956	947	947	947	947	884	811	729	760	692	—
	19	932	932	940	940	939	930	906	839	701	725	648	729	—
	20	916	923	931	947	956	947	931	854	800	735	774	693	—
	21	908	925	933	932	940	940	917	863	820	771	768	671	—
	22	957	966	973	966	965	965	957	917	870	829	796	706	—
	23	957	957	957	957	957	966	957	924	862	808	778	691	—
	24	957	957	957	948	956	965	974	966	925	932	871	771	—
	25	949	948	957	940	965	973	965	956	924	933	872	805	—
	26	966	966	966	974	974	966	966	949	910	850	790	767	—
	27	941	949	957	957	957	966	957	878	813	773	789	731	—
	28	950	942	941	958	966	966	949	933	858	808	729	711	—
	29	926	941	941	940	948	940	940	900	841	772	769	926	—
	30	950	950	950	958	958	917	966	947	948	932	909	880	—
	31	948	948	957	957	966	974	948	940	854	840	821	813	—
Hourly Means.		935	939	940	945	947	949	944	902	840	788	754	730	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	654	600	647	653	672	706	759	791	894	902	925	941	801
	2	636	577	719	919	927	942	942	926	950	950	958	958	866
	3	744	751	738	742	780	821	899	916	898	947	948	956	866
	4	741	720	749	760	852	906	899	915	931	899	923	940	882
	5	700	665	609	703	848	877	908	900	916	932	932	948	865
	6	900	825	924	932	933	941	957	974	957	957	966	966	918
	7	684	706	703	732	824	870	901	900	907	940	940	940	863
	8	730	725	659	787	825	849	871	908	860	867	899	881	844
	9	768	734	716	725	735	906	924	941	957	957	957	957	851
	10	705	737	755	743	773	792	820	781	823	861	900	915	846
	11	599	719	730	722	721	769	817	861	875	899	906	915	828
	12	637	670	664	690	697	742	795	800	850	864	885	901	807
	13	718	704	703	705	735	778	825	824	862	854	877	901	831
	14	579	574	630	658	782	867	866	890	891	924	932	940	825
	15	746	717	719	777	794	808	837	843	819	833	885	900	843
	16	712	770	682	711	717	754	875	891	923	940	940	940	822
	17	858	800	740	760	794	783	831	860	883	916	915	940	871
	18	631	663	724	768	768	781	836	856	878	893	908	925	839
	19	752	719	760	762	736	760	844	871	886	869	893	907	830
	20	634	624	601	647	687	700	780	765	813	856	870	893	803
	21	616	664	677	854	900	916	941	949	948	957	948	957	863
	22	712	848	903	903	919	943	943	942	925	924	940	940	905
	23	715	718	703	727	794	793	848	900	948	947	966	974	867
	24	746	773	888	865	827	842	887	878	908	932	941	949	901
	25	773	776	753	768	801	932	940	932	957	957	957	957	904
	26	731	755	754	795	816	817	869	901	917	933	941	949	884
	27	719	706	745	795	787	822	843	911	927	935	943	943	864
	28	744	738	743	788	808	837	874	896	904	919	926	933	868
	29	844	767	743	750	762	801	836	857	895	918	926	933	867
	30	790	794	761	717	774	852	867	899	916	916	932	940	893
	31	779	760	786	751	736	798	804	810	839	839	847	847	857
Hourly Means.		719	719	730	762	791	829	866	880	899	911	923	932	857

DIRECTION OF THE WIND.

JANUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	W	C	C	C	C	W	S W	W	W
2	W	S W	S W	C	C	C	C	C	W S W	S W	W	N W
3	C	S W	S W	C	C	C	S W	C	S W	W	N W	N
4	N W	N W	N W	C	C	C	C	N W	W N W	N W	N W	N W
5	C	C	C	C	N W	N W	N W	N W	N W	N W	N N W	N W
6	C	C	C	C	S W	S W	S W	S W	W S W	S W	W S W	N W
7	C	C	C	C	C	C	C	C	W	S W	W	N
8	C	C	C	C	C	C	C	C	S S W	W	W	N W
9	C	C	C	C	C	C	C	W S W	W S W	N N W	N	N
10	C	C	C	C	C	C	C	C	N W	N W	N W	N W
11	C	C	C	C	C	C	C	C	W	N W	W N W	N N W
12	C	C	C	C	C	C	S S W	S S W	S W	S S W	N W	W S W
13	C	N N W	C	C	N N W	C	N N W	W N W	W S W	W S W	W S W	N E
14	C	C	C	C	C	C	W S W	C	W S W	W S W	W	W N W
15	C	C	C	C	W S W	C	C	W	N W	W	N N W	N N W
16	E N E	C	C	C	C	C	C	E S E	E	S E	E	E N E
17	C	C	C	C	C	C	S	S	S	N E	N W	N
18	C	C	C	C	C	S W	C	C	W	N W	N N E	S W
19	C	C	C	C	W N W	W N W	W N W	W S W	N W	N	N N E	N N E
20	C	C	C	C	C	N	N	W	W	W	N N W	N N E
21	C	C	C	C	C	C	C	N	N W	N W	N W	N W
22	C	C	W S W	C	W S W	C	W S W	W	W	W S W	W N W	N W
23	C	C	C	N W	C	C	C	C	N W	N W	N W	N N W
24	C	C	C	N W	C	N W	N W	W N W	W	N N W	N N W	N W
25	C	C	N N W	N N E	N N E	C	C	C	N E	N W	W N W	N N W
26	C	C	C	C	C	C	C	W N W	W N W	W N W	N W	N N W
27	C	C	C	C	C	C	C	C	N N W	N N W	N E	N N E
28	C	C	C	C	C	C	N N W	N	N	N	N N W	N N W
29	C	C	C	C	C	N	N E	N E	N N W	N W	N W	N
30	C	C	C	C	N	N E	N W	C	N W	N W	N W	N W
31	C	C	S W	C	C	C	S W	W S W	W N W	N N W	N W	N W

JANUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
1	W	W	W N W	W N W	W N W	W N W	W N W	W	W	C	C	C
2	N W	W N W	S S W	S W	S W	C	S W	S W	C	C	C	C
3	N	N N E	N	N	S W	S W	N W	N W	N W	N W	N W	N W
4	N W	N W	N W	W	W N W	W N W	C	C	C	N W	C	C
5	N W	N N W	N N W	S W	S W	S W	C	C	C	C	C	C
6	W N W	W N W	W S W	C	C	C	C	C	C	C	C	C
7	N	N N W	N	N N W	S S W	S S W	C	C	C	C	C	C
8	N	N	N W	S	C	C	C	S	C	C	C	C
9	N	N N W	N	N	S S W	N W	N N W	C	C	C	C	C
10	N N W	N	N	N	N N W	N N W	N N W	N W	N W	C	C	C
11	N W	N	N N E	N	N N W	S S W	S S W	C	C	C	C	C
12	N N W	N N E	N N E	N	N	N N W	N N W	C	C	C	C	C
13	N W	N	N N W	N N W	S W	S W	W S W	C	C	C	C	C
14	N W	N N W	N	N N W	W S W	S S W	S S W	S S W	S S W	W S W	C	C
15	N E	N N W	N N W	N	N	N	N N W	N N W	N E	N E	E N E	E N E
16	N E	N E	N E	N E	N E	N N E	S W	S S E	S	S	S	C
17	N N W	N N W	N	N N W	N N W	S W	S W	C	C	C	C	C
18	N N E	N N E	N	N W	N W	N W	C	C	C	C	C	C
19	N N E	N N E	N	N	N	N	C	N	C	C	C	C
20	N	N N E	N N E	N N W	N	N	C	C	C	C	C	C
21	N N W	N	N	W S W	W	C	C	W	W S W	W S W	C	C
22	N W	N W	C	C	C	C	C	C	C	C	C	C
23	N N W	N	N	N	N	N W	N W	N N E	N N W	N N W	N N W	C
24	N W	N W	W	W	N W	C	C	C	C	C	C	C
25	N W	N W	N	N	N N W	N W	C	C	C	C	C	C
26	N N E	N	N N W	N W	N W	S W	S W	C	C	C	C	C
27	N	N	N	N	N N W	N N W	C	C	C	C	N N W	C
28	N	N	N	N	N	N	C	C	N	N	N	N
29	N	N	N W	N W	N	N	N	C	C	C	C	C
30	N	N	N N W	N W	S W	S W	S W	S W	C	S W	C	C
31	N W	W	W	W S W	W S W	S W	S W	S W	S W	W S W	W S W	W S W

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

JANUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	3.2	5.6	6.4	8.0	—
2	1.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	2.4	4.8	5.6	5.6	—
3	0.0	1.6	0.8	0.0	0.0	0.0	1.6	0.0	0.8	3.2	4.8	6.4	—
4	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	2.4	3.2	4.0	4.8	—
5	0.0	0.0	0.0	0.0	0.8	3.2	1.6	3.2	9.7	12.1	12.1	9.7	—
6	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2	3.2	6.4	6.4	—
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	4.8	7.2	—
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	6.4	6.4	—
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	9.7	10.5	—
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.8	6.4	—
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.0	4.0	8.0	—
12	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.8	3.2	4.0	4.8	—
13	0.0	0.8	0.0	0.0	0.8	0.0	0.8	3.2	0.8	1.6	2.4	7.2	—
14	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	4.0	4.8	8.0	—
15	0.0	0.0	0.0	0.0	0.8	0.0	0.0	4.0	3.2	4.0	4.8	8.0	—
16	1.6	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.9	7.2	6.4	8.0	—
17	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	4.8	2.4	4.8	—
18	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	1.6	3.2	4.0	—
19	0.0	0.0	0.0	0.0	1.6	2.4	3.2	2.4	2.4	3.2	9.7	12.1	—
20	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6	3.2	4.8	6.4	8.0	—
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.6	7.2	11.3	9.7	—
22	0.0	0.0	1.6	0.0	0.8	0.0	1.6	0.8	2.4	5.6	6.4	6.4	—
23	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	4.8	8.0	10.5	13.7	—
24	0.0	0.0	0.0	1.6	0.0	0.8	1.6	0.8	2.4	1.6	7.2	13.7	—
25	0.0	0.0	1.6	6.4	3.2	0.0	0.0	0.0	0.8	3.2	4.8	8.9	—
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.0	6.4	8.9	—
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	7.2	7.2	—
28	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	6.4	8.9	9.7	10.5	—
29	0.0	0.0	0.0	0.0	0.0	1.6	6.4	1.6	4.0	5.6	8.9	4.8	—
30	0.0	0.0	0.0	0.0	3.2	4.8	4.8	0.0	1.6	1.6	3.2	4.8	—
31	0.0	0.0	0.8	0.0	0.0	0.0	1.6	0.8	4.8	3.2	4.8	9.7	—
Hourly Means.	0.13	0.18	0.21	0.34	0.41	0.52	0.95	1.11	3.13	4.37	6.24	7.83	—

JANUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.0	9.7	12.1	12.1	6.4	2.4	3.2	1.6	1.6	0.0	0.0	0.0	3.38
2	5.6	6.4	7.2	0.8	0.8	0.0	1.6	1.6	0.0	0.0	0.0	0.0	1.97
3	12.1	12.1	11.3	6.4	1.6	1.6	2.4	2.4	1.6	1.6	1.6	0.8	3.11
4	3.2	2.4	3.2	4.8	1.6	1.6	0.0	0.0	0.0	0.8	0.0	0.0	1.47
5	9.7	12.1	11.3	8.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	4.00
6	2.4	2.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40
7	9.7	10.5	10.5	6.4	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.45
8	6.4	12.9	10.5	4.8	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	2.21
9	12.1	11.3	11.3	11.3	5.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0	3.49
10	10.5	11.3	11.3	13.7	9.7	4.8	6.4	4.8	1.6	0.0	0.0	0.0	3.65
11	9.7	10.5	11.3	10.5	4.8	3.2	0.8	0.0	0.0	0.0	0.0	0.0	2.98
12	8.0	12.1	10.5	9.7	11.3	4.8	2.4	0.0	0.0	0.0	0.0	0.0	3.25
13	11.3	9.7	8.9	6.4	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	2.55
14	8.9	9.7	12.1	12.9	11.3	4.8	0.8	0.8	1.6	0.8	0.0	0.0	3.45
15	12.9	8.9	9.7	14.5	10.5	6.4	2.4	1.6	0.8	2.4	1.6	1.6	4.09
16	8.9	10.5	12.1	11.3	8.0	4.0	8.9	3.2	1.6	0.8	0.8	0.0	4.39
17	6.4	7.2	8.0	4.0	0.8	4.8	3.2	0.0	0.0	0.0	0.0	0.0	2.20
18	12.1	14.5	7.2	6.4	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.38
19	7.2	6.4	7.2	4.8	4.0	1.6	0.0	0.8	0.0	0.0	0.0	0.0	2.88
20	11.3	13.7	11.3	9.7	7.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.45
21	11.3	12.9	9.7	7.2	0.8	0.0	0.0	1.6	1.6	0.8	0.0	0.0	3.42
22	6.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.53
23	11.3	11.3	11.3	9.7	6.4	1.6	0.8	6.4	1.6	0.8	0.8	0.0	4.19
24	11.3	6.4	0.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.14
25	11.3	11.3	8.0	6.4	6.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.05
26	11.3	12.9	11.3	4.8	2.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	2.88
27	9.7	8.0	11.3	8.9	4.8	0.8	0.0	0.0	0.0	0.0	0.8	0.0	2.65
28	12.1	16.1	12.9	8.0	3.2	0.8	0.0	0.0	0.8	1.6	1.6	1.6	4.06
29	4.8	8.0	5.6	6.4	6.4	3.2	0.8	0.0	0.0	0.0	0.0	0.0	2.84
30	9.7	12.9	8.0	6.4	9.7	3.2	0.8	1.6	0.0	0.8	0.0	0.0	3.21
31	10.5	8.0	8.0	4.8	4.8	4.0	2.4	1.6	1.6	1.6	1.6	2.4	3.21
Hourly Means.	9.23	9.90	8.94	7.18	4.64	2.27	1.32	0.93	0.46	0.39	0.28	0.21	2.97

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	9	8	6	5	8	10	10	10	6	3	3	5	-
	2	8	8	7	6	3	3	4	7	5	4	5	7	—
	3	3	3	1	6	10	9	9	8	8	7	7	7	—
	4	9	7	10	10	10	10	10	10	9	9	9	9	—
	5	8	9	6	8	8	6	1	1	9	9	9	7	—
	6	3	3	2	2	4	9	10	10	10	8	9	10	—
	7	2	2	2	3	3	3	2	2	3	2	4	6	—
	8	2	3	4	2	6	8	9	8	6	5	4	9	—
	9	10	7	9	7	9	6	8	7	6	3	3	8	—
	10	9	7	7	9	10	10	10	7	9	7	5	3	—
	11	3	3	2	2	2	4	9	9	8	8	9	9	—
	12	2	1	1	1	1	2	5	6	4	3	3	4	—
	13	7	7	6	7	8	9	9	9	8	8	7	9	—
	14	4	10	9	6	7	7	9	9	7	4	5	3	—
	15	7	10	8	5	4	5	4	7	7	6	7	8	—
	16	8	9	9	8	6	8	9	4	5	3	7	7	—
	17	7	5	5	7	3	8	9	4	8	10	10	10	—
	18	4	2	1	2	2	2	4	2	2	5	5	5	—
	19	10	10	10	7	7	5	5	2	4	4	2	6	—
	20	4	3	3	4	5	4	1	1	0	6	7	1	—
	21	7	6	6	8	4	7	10	8	9	10	8	8	—
	22	5	4	4	6	5	2	6	8	8	6	7	8	—
	23	8	9	10	10	9	9	10	9	4	9	9	8	—
	24	10	6	10	9	10	10	10	10	10	10	10	8	—
	25	6	9	10	10	10	10	10	10	9	10	10	10	—
	26	4	7	9	8	8	8	10	10	10	10	10	10	—
	27	6	5	4	4	3	2	3	3	2	7	6	3	—
	28	6	3	3	7	8	3	9	10	8	7	5	5	—
	29	6	4	3	4	7	8	10	9	8	8	9	10	-
	30	4	7	8	4	8	10	10	10	10	10	9	10	-
	31	4	5	4	4	3	8	10	10	10	10	10	10	—
Hourly Means.		6.0	5.9	5.8	5.8	6.2	6.6	7.6	7.1	6.8	6.8	6.9	7.2	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	7	5	7	4	3	7	9	10	10	10	10	10	7.3
	2	5	6	10	10	10	10	10	10	10	10	10	10	7.4
	3	8	7	6	8	9	10	10	8	10	10	9	8	7.5
	4	9	10	10	10	10	10	9	10	10	9	6	5	9.2
	5	7	7	6	10	10	10	10	7	4	4	3	4	6.8
	6	10	9	10	7	10	10	10	10	10	10	3	2	7.5
	7	7	5	5	10	10	10	10	10	8	6	5	4	5.2
	8	9	7	8	9	8	8	3	4	7	7	9	9	6.4
	9	7	5	5	6	10	10	8	9	6	3	2	3	6.5
	10	7	6	2	5	5	6	5	5	6	6	4	2	6.3
	11	6	5	3	2	7	6	1	1	1	0	1	2	4.3
	12	7	3	2	2	5	4	6	6	4	7	6	4	3.7
	13	8	8	9	8	9	9	10	10	10	10	10	10	8.5
	14	6	5	3	5	10	7	8	9	8	7	7	9	6.8
	15	3	2	3	6	4	3	7	9	9	10	7	7	6.2
	16	8	7	3	2	1	1	10	10	10	10	8	7	6.7
	17	8	9	7	7	9	10	10	10	6	6	7	6	7.5
	18	5	4	7	8	8	10	5	7	8	9	10	9	5.3
	19	8	8	5	4	2	2	5	3	6	8	7	4	5.6
	20	2	2	2	2	3	8	4	6	6	5	5	5	3.7
	21	6	3	6	10	10	10	10	10	10	10	10	8	8.1
	22	10	10	10	10	10	10	10	10	7	6	6	6	7.3
	23	8	6	5	7	8	10	10	10	10	10	10	10	8.7
	24	9	10	10	10	9	9	6	4	3	6	6	5	8.3
	25	10	8	9	7	9	10	9	4	4	5	3	3	8.1
	26	10	7	7	9	10	9	9	9	9	8	10	9	8.8
	27	5	4	5	8	10	9	7	9	10	9	7	9	5.8
	28	8	7	8	9	9	10	7	10	10	9	8	8	7.4
	29	8	7	5	4	4	3	4	2	2	3	2	3	5.5
	30	7	7	6	5	9	7	7	5	9	9	6	5	7.6
	31	9	9	8	6	9	6	10	7	4	10	9	9	7.7
Hourly Means.		7.3	6.4	6.2	6.8	7.7	7.9	7.7	7.5	7.3	7.5	6.6	6.3	6.83

Mean Batavia Time.	8—8½ A. M.	8½—9	9—9½	9½—10	10—10½	10½—11	11—11½	11½—12	12—12½ P. M.	12½—1	1—1½	1½—2	2—2½	2½—3	3—3½	3½—4	Daily and Monthly Means
JANUARY. 1	0	4	9	10	10	10	10	5	4	1	3	10	6	7	10	10	6.8
2	3	8	9	8	10	10	7	6	7	10	10	8	3	0	0	0	6.2
3	10	10	10	10	8	8	7	5	4	6	6	10	9	6	8	2	7.4
4	0	0	3	4	0	0	3	1	1	2	2	0	0	0	1	0	1.1
5	2	10	6	3	0	0	0	0	0	8	9	3	4	9	6	2	3.9
6	0	0	3	3	8	9	5	1	1	0	0	0	0	0	0	0	1.9
7	9	10	10	10	10	10	9	8	7	8	3	8	10	10	3	0	7.8
8	6	2	10	7	10	10	10	9	6	4	6	10	2	0	0	0	5.8
9	4	8	10	10	9	9	7	1	1	1	3	1	9	7	8	6	5.9
10	0	2	6	6	9	10	10	10	8	7	7	7	9	6	10	8	7.2
11	6	9	10	9	7	7	8	8	10	10	9	8	6	8	10	8	8.3
12	10	8	10	10	10	10	9	10	8	2	7	10	10	10	10	10	9.0
13	0	0	0	0	0	1	6	7	3	7	9	5	7	7	10	7	4.3
14	0	0	8	10	10	8	4	9	8	7	7	7	5	10	10	5	6.8
15	8	2	0	3	7	7	8	10	6	5	7	9	10	9	7	2	6.3
16	8	10	10	9	10	8	8	2	4	6	0	2	8	1	10	9	6.6
17	7	8	8	2	0	0	0	0	0	1	1	1	6	10	2	2	3.0
18	9	4	8	6	5	2	3	9	4	6	10	10	7	1	0	2	5.4
19	10	9	8	3	3	10	9	8	1	1	0	0	8	10	7	8	5.9
20	10	10	7	6	5	1	8	10	10	10	10	10	10	10	8	6	8.2
21	1	3	3	1	2	6	8	9	6	8	6	5	10	8	5	0	5.1
22	0	0	2	3	6	6	5	7	2	4	0	0	0	0	0	0	2.2
23	0	2	7	8	6	4	6	7	6	2	1	7	6	8	10	7	5.4
24	0	0	0	0	0	0	2	2	3	3	2	0	0	0	0	0	0.8
25	0	0	0	0	0	2	3	0	0	0	0	3	7	4	4	6	1.8
26	1	3	1	3	7	7	7	2	3	5	5	8	8	3	9	3	4.7
27	3	9	8	2	4	4	4	9	10	5	7	4	9	7	5	2	5.8
28	2	8	8	5	7	7	9	9	7	8	7	8	7	9	6	3	6.9
29	0	4	8	6	4	4	0	0	0	0	0	0	6	10	7	5	3.4
30	0	0	0	0	0	0	0	3	0	4	7	6	7	8	4	9	3.0
31	0	3	0	0	0	2	2	1	0	1	2	4	0	6	3	1	1.6
Means.	3.5	4.7	5.9	5.1	5.4	5.5	5.7	5.4	4.2	4.6	4.7	5.3	6.1	5.9	5.6	4.0	5.10

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

JANUARY.

Mean Batavia Time.	7h30 A. M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	28.6	33.0	38.4	50.0	52.4	52.4	52.5	53.6	52.4	53.6	52.3	47.3	50.4	50.8	50.5	42.9	49.8	37.5	49.4
2	40.2	36.3	47.9	42.6	42.4	49.2	51.3	53.8	49.6	43.6	54.7	55.4	56.9	50.7	46.8	—	—	—	25.7
3	29.6	33.4	34.9	39.7	40.1	44.7	48.9	53.4	50.0	53.1	46.1	50.4	46.2	46.0	46.8	42.2	48.8	35.9	34.4
4	24.9	27.8	28.9	36.2	40.9	40.4	40.1	48.4	48.8	51.9	48.4	47.0	42.4	40.8	40.6	41.3	40.0	26.8	26.0
5	29.6	42.9	47.1	38.4	43.4	33.2	34.0	35.5	38.2	43.4	45.7	48.8	46.1	43.8	47.4	44.8	42.9	29.9	28.4
6	28.3	34.5	31.7	35.5	38.5	48.4	50.5	48.5	41.4	—	—	—	—	—	—	—	—	—	29.4
7	36.6	42.9	44.4	48.9	49.1	50.3	52.0	51.5	49.6	52.0	47.9	43.9	42.4	48.2	50.0	48.4	36.6	31.0	28.4
8	30.9	37.1	34.7	47.4	43.9	52.4	52.4	54.8	54.2	46.8	31.0	46.3	44.6	49.3	51.3	35.8	31.1	27.3	27.5
9	29.7	38.2	41.4	51.3	51.0	52.6	52.7	53.4	40.7	39.2	44.9	46.0	46.7	44.9	50.5	45.2	43.0	39.2	32.2
10	26.9	31.9	34.9	38.0	44.1	47.4	50.2	53.4	50.0	50.4	53.1	45.0	48.0	49.8	50.1	45.4	49.2	39.9	35.3
11	27.1	35.4	38.7	46.2	49.4	45.3	44.7	47.3	47.4	54.9	53.4	53.0	50.4	48.9	54.9	47.9	44.9	37.4	32.5
12	29.1	43.1	39.0	47.6	50.1	51.6	53.1	53.3	56.4	57.2	52.6	47.3	53.9	52.2	51.5	50.4	49.9	42.4	33.4
13	26.6	29.7	31.9	36.1	37.4	38.0	38.2	40.4	49.0	49.8	41.6	55.8	56.0	47.8	45.3	46.1	43.8	41.4	35.3
14	27.4	29.6	31.7	46.8	45.0	51.5	50.4	53.4	44.9	56.4	57.1	55.6	56.8	50.0	43.4	50.6	50.7	40.1	33.9
15	34.4	37.4	34.9	37.5	41.3	50.5	45.5	51.4	53.9	45.4	53.2	53.3	52.9	53.3	53.3	51.9	47.8	36.4	31.8
16	31.0	45.5	48.9	52.2	51.6	51.4	53.8	52.1	45.4	50.4	42.4	39.8	35.3	39.4	51.6	52.9	54.4	38.9	35.5
17	31.0	43.1	46.6	49.2	38.7	36.2	33.6	31.6	35.6	32.1	32.4	41.7	40.9	41.2	43.4	47.6	40.0	36.8	32.9
18	35.4	45.0	37.9	46.6	48.0	42.7	37.1	43.4	52.9	52.7	41.1	53.6	55.0	54.7	47.6	39.0	35.5	36.0	35.2
19	36.9	44.9	48.0	49.9	40.2	49.9	42.9	55.4	55.6	44.0	38.9	42.1	41.4	39.8	38.4	42.1	43.1	38.3	32.9
20	36.0	43.4	47.4	50.4	41.9	54.9	42.1	42.6	53.4	54.9	55.9	55.6	54.4	52.8	52.2	51.8	50.2	40.6	35.0
21	31.9	36.2	37.0	42.6	39.1	39.9	41.1	51.4	55.7	56.5	45.4	54.9	47.1	52.4	52.3	45.9	46.4	—	—
22	40.9	32.2	35.1	49.1	44.0	48.2	50.4	48.1	51.9	46.7	40.7	40.4	32.4	—	—	—	—	30.9	28.8
23	26.6	30.8	34.3	40.9	49.1	50.7	48.9	44.0	50.7	57.9	50.6	41.1	42.9	46.6	50.3	49.6	51.1	38.2	34.8
24	27.3	29.5	32.1	30.9	31.9	30.3	33.9	35.9	36.9	41.4	42.4	43.8	43.6	35.0	30.4	33.3	33.4	33.9	33.3
25	—	24.9	26.3	31.4	32.9	35.4	37.7	41.9	41.1	35.4	47.1	42.9	42.0	46.2	51.8	35.8	42.8	38.8	33.4
26	28.2	34.4	36.9	39.4	38.1	50.4	50.4	53.6	50.2	48.4	41.4	39.3	50.1	48.5	46.9	48.9	45.4	34.9	33.3
27	36.9	37.9	50.3	46.8	41.8	43.1	38.8	42.0	46.3	53.3	50.9	53.4	52.4	47.9	52.4	42.4	44.1	31.6	30.2
28	27.9	28.3	42.4	45.9	49.4	41.1	48.7	50.7	51.4	46.1	47.9	48.5	50.0	51.3	43.5	49.3	44.7	32.7	31.2
29	25.4	31.4	35.1	49.3	53.9	48.4	42.7	40.9	—	—	44.4	38.4	50.0	44.7	47.1	49.0	41.8	39.9	36.5
30	—	—	—	—	—	33.9	35.1	37.9	39.9	42.4	41.0	53.2	53.1	39.3	48.9	46.9	42.4	46.9	37.3
31	27.4	29.4	33.9	41.6	39.0	40.6	44.1	46.6	38.2	40.2	42.1	43.4	45.7	36.4	40.4	48.9	44.4	38.9	36.4
Means.	30.78	35.67	38.42	43.61	43.62	45.32	45.09	47.43	47.72	48.28	46.22	47.57	47.67	46.64	47.57	45.58	44.22	36.52	33.01

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY. 1	7.8	6.0	4.1	3.7	4.1	7.8	7.8	6.9	1.8	1.4	2.7	2.7	—
2	5.5	2.3	3.7	2.7	5.5	9.6	8.7	5.5	4.4	0.5	0.5	1.4	—
3	3.2	1.8	0.9	1.8	1.8	3.2	5.5	5.5	5.1	1.8	0.0	1.8	—
4	7.3	6.4	5.5	5.1	6.0	6.9	3.2	2.3	2.7	1.4	0.5	1.4	—
5	12.4	12.4	15.5	7.3	4.6	— 10.1	0.5	4.1	0.5	— 4.6	1.8	0.5	—
6	6.9	9.2	8.3	6.9	5.1	1.8	2.3	2.7	2.3	0.0	0.5	P N	—
7	8.3	11.5	8.7	5.5	6.0	9.2	12.8	8.7	1.4	0.5	1.4	1.8	—
8	9.2	8.7	9.6	7.8	10.1	12.4	11.0	6.4	2.3	0.5	1.4	1.4	—
9	5.1	6.4	5.1	4.6	4.6	5.5	9.6	7.8	5.1	2.3	1.8	0.9	—
10	15.5	11.9	17.8	9.2	8.7	11.5	7.3	8.3	3.7	0.0	1.4	1.4	—
11	6.4	6.9	6.4	5.1	4.6	4.1	8.7	4.6	2.3	1.4	1.4	0.9	—
12	8.3	6.9	7.8	7.3	6.4	8.3	9.2	3.7	1.8	2.3	2.3	1.8	—
13	9.2	8.7	7.8	7.3	6.4	6.4	7.8	6.4	4.1	2.7	2.3	0.9	—
14	8.3	8.7	6.9	4.6	6.0	5.1	7.3	4.1	3.7	0.5	1.8	1.8	—
15	5.5	5.5	5.1	5.5	6.4	6.4	10.5	6.0	2.3	— 0.9	0.9	0.5	—
16	3.7	2.3	3.7	3.7	9.2	6.4	4.6	1.8	1.4	0.9	1.4	0.0	—
17	4.6	4.6	4.1	4.1	3.7	4.6	9.2	1.8	0.9	—	P N	P N	—
18	22.9	25.2	23.4	13.7	14.2	11.9	15.5	11.5	6.9	3.7	0.5	0.9	—
19	16.4	14.6	12.8	12.4	11.9	7.3	10.1	6.0	5.5	5.1	13.7	3.2	—
20	19.7	33.0	19.7	10.1	11.0	8.7	11.0	5.5	4.1	1.4	0.0	0.5	—
21	6.9	11.9	9.2	11.5	6.0	5.5	18.3	11.5	— 0.9	6.4	0.5	1.4	—
22	5.5	6.4	8.7	5.5	3.7	2.7	18.3	4.6	6.4	5.5	5.1	4.6	—
23	28.0	25.2	20.6	15.5	20.6	17.4	19.7	11.9	8.3	4.1	3.2	3.2	—
24	3.2	9.6	10.5	10.1	P N	— 8.7	5.5	16.4	N	1.8	6.4	2.7	—
25	18.3	19.7	10.5	11.5	P N	P N	P N	0.9	15.1	4.6	3.2	3.2	—
26	16.0	19.2	20.1	17.8	11.0	10.5	18.3	6.0	4.1	1.4	3.2	3.2	—
27	12.8	13.3	10.1	18.3	13.3	14.2	16.4	8.3	7.3	1.8	3.2	1.4	—
28	10.1	9.2	7.8	10.5	13.3	13.7	21.0	—	—	—	—	—	—
29	—	—	—	—	—	—	—	1.5	2.5	3.5	3.5	N	—
30	20.2	15.2	13.6	14.6	15.6	8.1	N	N	3.0	6.1	1.0	4.6	—
31	19.6	20.2	16.6	13.2	17.6	22.8	22.8	— 7.6	1.0	— 2.0	— 0.5	— 3.0	—
Hourly Means.	10.9	11.4	10.2	8.6	8.5	7.4	10.8	5.6	3.7	1.9	2.2	1.7	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY. 1	2.7	2.3	2.3	3.2	3.2	6.0	P	P N	P N	— 6.0	0.9	5.1	3.6
2	1.8	4.1	N	P N	P N	P N	P N	— 6.4	0.9	3.2	5.5	5.5	3.3
3	2.3	2.3	4.1	6.9	N	— 3.2	5.5	7.8	5.1	7.8	6.9	7.3	3.7
4	0.5	1.8	2.3	4.1	14.6	13.7	P N	P N	N	16.9	6.9	7.3	5.6
5	0.9	1.4	2.3	1.8	— 2.3	P N	10.1	P N	2.7	4.1	3.7	4.1	3.4
6	P N	17.8	P N	P N	P N	2.7	— 0.5	3.7	4.6	6.0	5.5	5.5	4.8
7	1.8	— 0.9	3.2	P N	P N	3.7	7.8	13.3	12.8	10.1	11.5	8.7	6.7
8	— 9.2	1.8	N	22.9	8.3	7.8	7.8	2.7	10.1	9.2	8.7	7.8	6.9
9	1.4	1.8	1.8	— 2.3	N	N	P	10.5	11.0	11.9	11.5	13.3	5.7
10	1.8	0.9	1.4	1.4	1.8	2.3	3.7	4.1	4.6	6.0	7.3	5.1	5.7
11	0.9	— 0.5	0.5	0.9	2.3	2.3	3.7	5.1	7.8	8.3	5.1	8.7	4.1
12	1.4	1.4	0.0	0.9	0.5	2.3	3.7	5.1	7.3	10.5	9.2	9.6	4.9
13	0.5	0.5	0.9	3.7	5.1	6.4	8.3	5.1	6.9	6.4	6.9	6.9	5.3
14	1.4	0.9	— 0.5	3.7	1.8	20.6	31.2	— 4.1	9.2	6.0	5.1	4.6	5.8
15	— 0.5	— 0.5	0.9	— 0.5	— 6.0	0.5	— 10.1	P N	P N	— 15.1	3.2	5.5	1.4
16	— 18.3	4.6	0.9	2.3	2.3	5.5	— 13.7	P N	— 4.6	1.4	3.2	4.1	1.2
17	— 1.4	4.6	7.3	9.2	9.6	10.1	11.5	17.8	26.6	21.5	22.9	25.6	9.7
18	1.8	6.0	6.9	6.9	6.0	7.8	11.0	18.3	25.2	22.0	17.4	15.1	12.3
19	— 9.2	4.1	3.7	4.1	2.3	5.5	9.6	16.0	21.0	20.6	28.0	24.7	10.4
20	0.5	1.4	1.8	3.2	6.0	18.3	31.2	4.1	6.0	18.8	14.2	11.9	10.1
21	1.4	— 1.8	7.8	P N	P N	P N	P N	2.7	4.1	7.3	8.3	7.3	6.3
22	5.5	P N	P N	7.3	11.9	38.9	2.3	0.0	16.9	21.0	30.7	20.6	10.6
23	3.7	4.1	4.1	4.1	26.1	17.8	8.7	P N	P N	P N	P N	P N	13.0
24	4.1	6.9	4.1	6.4	6.0	16.4	16.4	12.4	17.4	14.6	14.2	13.7	8.6
25	3.2	5.5	3.7	4.6	6.9	P N	3.7	24.3	16.4	13.3	12.8	16.0	9.9
26	2.7	5.5	4.1	16.0	— 9.6	7.8	11.5	10.1	10.5	10.5	12.8	10.1	9.3
27	1.8	3.2	2.3	P N	P N	P N	P N	14.6	15.5	11.5	9.6	11.0	9.5
28	—	—	—	—	—	—	—	—	—	—	—	—	12.2
29	— 7.6	2.5	4.6	6.6	5.6	10.1	11.6	18.2	19.2	14.6	23.8	19.6	8.7
30	2.0	6.1	6.6	6.6	2.0	6.6	14.2	20.6	25.3	20.6	13.2	14.6	10.9
31	— 3.0	— 2.5	— 3.5	2.5	2.0	4.0	6.6	8.6	9.6	8.1	7.1	5.6	6.9
Hourly Means.	— 0.2	2.9	2.8	5.1	4.6	8.9	8.2	8.9	11.2	10.0	10.9	10.5	6.95

BAROMETERIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY.	1	9.43	8.79	8.37	8.53	8.29	8.91	9.29	9.74	9.92	9.69	9.37	8.84	—
	2	9.31	8.86	8.71	8.54	8.75	9.36	9.87	9.99	9.80	10.07	9.84	9.15	—
	3	9.83	9.39	9.07	8.84	8.85	9.04	9.40	9.89	9.80	9.40	8.94	8.43	—
	4	8.45	8.09	7.97	7.90	8.08	8.80	9.26	9.80	9.93	10.10	9.40	8.70	—
	5	9.96	9.43	8.95	8.11	8.81	9.13	9.44	9.98	10.51	10.46	9.99	9.20	—
	6	9.74	9.25	9.03	9.15	9.06	9.09	9.36	10.08	10.35	10.25	10.19	9.67	—
	7	9.83	9.50	8.98	8.89	9.16	9.33	10.04	10.75	10.68	10.21	10.20	9.70	—
	8	8.83	8.38	7.74	7.80	8.08	8.59	9.31	9.69	9.95	9.47	9.28	8.41	—
	9	8.53	7.95	7.83	7.80	8.01	8.46	8.85	9.51	9.75	9.68	9.15	8.65	—
	10	9.83	9.60	9.48	9.69	9.94	10.20	10.73	11.30	11.43	11.29	10.81	10.25	—
	11	9.72	9.08	8.84	8.88	8.95	9.41	10.11	10.73	10.89	11.01	10.60	10.28	—
	12	10.56	10.21	9.89	10.00	9.89	9.93	10.50	11.39	11.84	11.78	11.16	10.55	—
	13	11.56	11.06	10.86	10.37	10.40	10.21	10.87	11.41	11.73	11.79	11.48	11.01	—
	14	10.89	10.59	9.96	9.88	10.09	10.55	10.97	11.67	11.95	11.89	11.75	11.18	—
	15	10.70	9.85	9.70	9.90	10.30	10.51	10.94	11.43	11.76	11.58	11.10	10.49	—
	16	10.40	10.01	9.76	9.93	10.38	10.64	11.00	11.21	10.75	10.45	10.27	9.89	—
	17	10.79	10.44	10.35	10.46	10.16	10.99	11.24	12.01	12.44	12.09	11.89	11.54	—
	18	10.89	10.25	9.85	9.93	9.95	10.02	10.81	11.44	11.26	11.20	10.78	10.28	—
	19	10.59	9.91	9.43	9.29	9.50	9.77	9.95	10.54	10.56	10.43	10.08	9.55	—
	20	8.95	8.36	8.21	8.13	8.09	8.81	9.47	10.24	10.51	10.25	9.65	9.00	—
	21	9.06	8.59	8.70	8.80	9.01	8.96	9.06	9.81	9.99	9.99	9.74	9.17	—
	22	9.17	8.77	8.53	8.40	8.68	8.91	9.24	9.81	10.18	10.21	9.84	9.50	—
	23	9.79	9.33	8.84	8.46	8.80	9.06	9.79	10.20	10.67	10.50	10.01	9.60	—
	24	10.23	9.72	9.41	9.34	9.90	10.21	10.66	11.05	11.13	10.66	10.27	9.97	—
	25	9.64	9.35	8.98	9.09	9.17	9.64	10.26	10.77	11.15	10.73	10.27	9.53	—
	26	9.43	8.99	8.47	8.44	8.81	8.85	9.71	10.05	10.75	10.87	10.85	10.06	—
	27	10.43	9.79	9.45	9.31	10.04	10.17	10.37	10.69	10.86	10.82	10.60	10.04	—
	28	10.49	10.17	9.88	9.94	10.30	10.40	10.56	11.08	11.68	11.59	11.25	10.69	—
Hourly Means.		9.89	9.42	9.12	9.06	9.27	9.57	10.04	10.57	10.79	10.66	10.31	9.76	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY.	1	8.55	8.11	7.54	7.46	7.59	8.23	8.98	9.18	9.78	9.95	9.95	9.61	8.92
	2	8.36	7.36	6.97	7.07	7.35	7.71	8.96	9.46	10.33	10.52	10.24	9.88	9.02
	3	8.01	7.46	6.99	6.69	6.95	7.63	7.98	8.68	9.22	9.55	9.63	8.96	8.69
	4	8.30	8.11	7.93	7.55	8.13	8.24	8.65	9.38	9.68	10.05	10.32	10.13	8.87
	5	8.65	8.09	7.48	7.58	7.70	8.30	9.09	9.81	10.18	10.34	10.65	10.38	9.26
	6	9.20	8.56	7.92	7.42	7.39	8.25	8.74	9.80	10.27	10.50	10.61	10.36	9.34
	7	8.64	8.06	7.95	7.68	7.85	8.56	9.05	9.42	9.64	9.81	9.70	9.36	9.29
	8	7.98	7.79	7.60	7.04	7.46	7.97	8.37	8.70	8.88	9.06	9.14	8.87	8.52
	9	8.12	7.61	7.47	7.49	8.01	8.71	9.12	9.47	9.95	10.37	10.39	10.21	8.80
	10	9.93	9.15	8.80	8.66	8.81	9.50	9.88	10.21	10.50	10.56	10.59	10.20	10.06
	11	9.63	9.26	8.88	8.66	9.15	9.38	10.19	10.47	11.00	11.36	11.31	10.91	9.95
	12	9.78	9.25	8.75	8.67	9.15	9.78	10.65	11.10	12.31	12.77	12.59	12.11	10.61
	13	10.62	10.31	9.89	9.57	9.82	9.94	10.63	11.41	11.73	11.74	11.69	11.12	10.88
	14	10.36	9.75	9.47	9.24	9.39	9.98	10.03	10.58	11.15	11.35	11.73	11.29	10.65
	15	9.73	9.24	8.83	8.43	8.58	9.31	9.67	10.24	10.78	11.13	11.18	10.95	10.26
	16	9.38	8.67	8.43	8.64	9.45	9.39	9.41	9.71	10.43	10.84	11.13	11.15	10.06
	17	10.56	10.24	9.25	8.97	8.78	9.19	9.48	10.27	10.89	11.04	11.06	10.99	10.63
	18	9.66	8.89	8.16	7.84	9.40	9.32	9.68	10.17	10.59	11.16	10.83	10.69	10.11
	19	8.93	8.40	8.23	8.56	9.17	9.42	9.23	9.08	9.62	9.64	9.78	9.70	9.56
	20	8.33	7.47	7.20	6.46	7.33	8.00	8.55	8.83	9.59	9.62	9.53	9.30	8.75
	21	8.45	7.78	7.31	7.15	7.17	7.74	8.28	8.59	9.19	9.63	9.26	9.14	8.77
	22	8.48	7.83	7.22	7.01	7.36	8.52	8.89	9.40	9.93	9.76	10.05	9.93	8.98
	23	8.97	8.31	7.98	7.88	8.01	8.86	9.27	9.76	10.11	10.93	10.93	10.89	9.46
	24	9.23	8.52	7.97	7.82	8.10	8.71	9.47	10.06	10.46	10.70	10.57	10.20	9.77
	25	8.69	8.21	7.46	7.31	7.39	8.11	8.82	9.67	10.06	10.18	10.26	9.92	9.36
	26	9.65	8.67	7.90	7.67	7.94	8.43	8.98	9.74	10.60	11.02	10.89	10.86	9.48
	27	9.38	8.44	8.23	8.45	8.67	8.72	9.70	10.18	10.75	11.51	11.51	11.08	9.97
	28	9.39	8.65	8.62	8.67	8.56	8.79	9.29	10.09	11.10	11.42	11.02	10.83	10.19
Hourly Means.		9.11	8.51	8.09	7.92	8.24	8.74	9.25	9.77	10.31	10.59	10.59	10.32	9.58

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STANDARD THERMOMETER.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	78.4	77.9	77.5	77.2	76.5	75.7	76.4	78.5	80.0	82.0	83.3	83.5	—
2	75.2	75.4	75.0	74.7	74.7	74.2	74.5	76.0	77.8	80.2	81.4	84.8	—
3	77.9	77.3	76.7	76.2	75.9	75.3	75.9	78.3	80.6	83.7	85.8	86.8	—
4	77.7	77.0	76.3	76.3	75.9	75.7	75.8	76.8	79.3	81.4	83.3	85.0	—
5	75.4	74.8	74.8	74.6	74.0	74.0	74.4	75.4	76.8	78.8	81.0	83.0	—
6	76.6	76.0	75.8	75.4	75.1	74.8	75.2	77.4	80.2	82.4	83.6	83.7	—
7	76.9	76.8	76.1	75.9	75.7	75.3	75.8	78.3	79.5	82.0	83.6	84.2	—
8	77.7	77.3	76.9	76.4	76.0	75.5	76.6	78.7	81.8	83.6	85.1	85.8	—
9	75.9	75.9	75.4	75.1	75.0	74.8	75.3	77.0	79.8	83.0	85.0	86.7	—
10	78.2	77.0	77.0	75.6	75.4	75.2	75.0	75.6	76.4	76.8	78.7	79.4	—
11	76.7	76.5	76.0	75.6	75.4	75.2	75.8	77.4	79.3	81.8	82.7	83.3	—
12	78.0	77.4	76.9	76.2	75.0	75.0	75.5	76.7	78.0	79.2	81.4	83.6	—
13	73.3	73.3	73.2	73.2	73.0	73.0	73.3	74.1	75.8	77.6	79.3	80.4	—
14	75.4	74.9	74.6	74.6	74.4	74.4	74.7	75.2	76.0	76.8	78.1	78.2	—
15	76.4	76.2	75.9	75.8	75.6	74.7	74.9	76.5	77.5	79.3	80.8	81.0	—
16	75.8	75.3	75.3	75.3	75.1	75.1	75.5	77.1	79.6	82.1	84.2	83.9	—
17	76.7	76.4	76.2	76.0	75.9	75.5	76.0	77.0	79.0	81.1	83.4	83.7	—
18	76.5	76.0	75.0	74.3	73.4	73.2	74.0	76.3	79.9	83.0	85.2	87.2	—
19	74.3	74.1	74.0	73.8	73.8	73.5	74.1	76.0	79.1	81.1	83.1	84.5	—
20	75.4	75.2	75.0	74.8	74.5	74.4	75.0	77.7	80.5	82.4	83.7	85.4	—
21	75.2	74.8	75.0	74.6	74.4	74.4	74.9	76.6	79.6	81.5	82.4	84.4	—
22	76.4	76.0	75.8	75.2	74.6	73.9	74.5	77.5	80.6	82.6	84.6	82.6	—
23	77.4	76.5	76.0	75.6	74.9	74.5	75.5	78.4	81.0	83.5	85.2	84.9	—
24	75.3	74.9	74.9	74.7	74.3	74.9	75.5	77.6	80.9	83.3	85.1	85.1	—
25	78.4	77.9	77.3	76.8	76.4	75.7	76.8	79.2	82.1	84.5	86.1	86.5	—
26	80.0	79.4	78.6	78.0	77.3	77.3	77.4	79.2	81.7	81.4	81.1	83.6	—
27	78.3	78.0	77.4	77.0	76.9	76.5	77.0	79.4	81.4	84.1	83.6	83.3	—
28	77.4	77.2	76.6	76.1	75.0	75.0	75.0	75.5	77.9	80.6	83.0	82.0	—
Hourly Means.	76.67	76.26	75.90	75.54	75.15	74.88	75.37	77.12	79.36	81.42	82.99	83.80	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	82.7	81.9	81.5	81.3	79.9	80.1	77.7	76.8	76.0	75.6	75.6	75.4	78.81
2	87.3	87.8	87.4	86.9	85.6	84.6	82.8	81.9	80.6	80.2	79.6	78.7	80.30
3	87.3	85.8	86.1	85.5	84.8	81.5	81.1	81.1	80.4	79.7	79.0	78.5	80.88
4	80.7	82.3	79.0	78.4	79.0	78.4	78.0	77.6	77.5	77.0	77.2	76.0	78.40
5	84.1	84.2	82.9	81.7	80.2	79.0	78.7	78.9	78.3	77.8	77.9	77.1	78.24
6	85.0	84.0	84.9	83.4	83.0	82.0	81.0	80.3	80.1	78.7	78.3	78.0	79.79
7	85.4	85.0	84.6	82.0	81.3	80.5	80.0	79.3	79.0	78.4	78.0	78.1	79.65
8	85.6	82.5	80.3	80.6	79.8	79.1	78.6	77.8	77.0	76.7	76.5	76.3	79.26
9	87.9	87.7	86.9	84.8	82.4	81.1	80.3	79.5	79.3	79.0	78.7	78.2	80.20
10	79.9	81.5	82.0	82.1	82.0	81.1	79.9	79.3	78.6	78.1	77.4	77.1	78.30
11	84.4	83.9	83.3	83.0	82.5	82.0	80.9	80.0	79.4	78.7	78.5	78.1	79.60
12	84.1	83.4	84.7	85.0	81.7	80.0	78.2	76.8	75.6	74.0	73.7	73.5	78.48
13	81.0	81.2	80.9	80.6	80.3	79.8	79.4	78.6	78.4	78.2	78.0	77.6	77.23
14	79.6	80.8	81.9	81.2	81.5	80.6	79.0	78.0	77.3	77.1	76.9	76.7	77.41
15	84.9	85.5	84.7	84.6	82.3	81.5	80.0	78.9	78.2	77.4	76.9	76.5	79.00
16	84.7	84.7	85.0	83.4	80.8	79.2	78.4	77.7	77.5	77.0	76.6	76.7	79.00
17	83.3	81.5	81.7	82.1	82.6	82.3	80.4	79.8	79.2	78.4	77.7	76.4	79.26
18	88.5	88.4	88.1	85.6	75.4	75.2	75.0	75.1	75.3	75.1	75.0	74.6	78.55
19	85.4	85.2	84.4	81.0	79.9	78.5	77.4	76.8	76.3	75.9	75.4	75.3	78.04
20	86.1	85.8	84.7	85.0	83.1	78.7	77.2	76.9	76.5	76.9	76.1	75.8	79.03
21	83.7	85.2	85.0	84.7	84.1	82.9	81.0	79.8	78.6	78.0	77.8	77.2	79.41
22	84.3	86.1	85.0	85.5	84.5	81.3	79.9	79.9	79.5	78.8	78.1	77.7	79.79
23	85.8	86.0	85.6	85.0	84.4	83.3	82.3	81.3	80.5	79.4	76.6	76.7	80.43
24	85.1	87.0	86.0	85.3	84.4	83.2	82.2	81.2	80.6	80.0	80.0	79.0	80.44
25	87.2	86.9	86.3	86.0	85.5	83.9	83.0	81.7	81.0	81.0	80.6	80.4	81.72
26	83.8	83.8	84.0	83.2	82.7	82.1	81.3	80.7	80.0	79.5	79.1	78.6	80.58
27	82.5	82.6	83.7	79.6	80.1	78.6	78.4	78.0	78.0	77.8	77.8	77.6	79.48
28	82.3	84.5	80.0	77.7	76.5	78.0	77.8	77.4	77.2	77.1	77.0	76.6	78.06
Hourly Means.	84.38	84.47	83.95	83.04	81.80	80.66	79.64	78.97	78.43	77.91	77.50	77.09	79.26

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	-
FEBRUARY.	1	846	860	859	875	906	931	932	862	825	786	775	768	—
	2	948	948	966	956	956	965	973	957	917	835	814	691	—
	3	876	892	907	899	915	931	923	853	790	714	617	658	—
	4	900	924	932	932	923	915	923	932	870	829	754	725	—
	5	957	956	965	956	956	956	965	940	907	847	776	725	—
	6	924	940	923	939	947	947	947	900	819	773	699	720	—
	7	932	940	948	948	948	957	957	901	833	779	714	763	—
	8	908	925	932	948	923	931	916	893	822	783	738	700	—
	9	915	906	922	930	939	939	930	883	825	775	724	639	—
	10	852	916	924	940	957	966	947	957	940	916	885	840	—
	11	874	899	906	898	905	922	931	900	855	793	752	725	—
	12	884	852	827	849	880	888	889	874	868	839	799	720	—
	13	955	955	946	946	955	955	956	947	931	892	886	797	—
	14	948	956	965	965	973	973	965	957	948	957	926	893	—
	15	957	957	966	966	966	939	947	924	884	840	805	843	—
	16	940	956	956	956	956	965	948	907	825	751	736	776	—
	17	957	966	957	966	957	957	957	916	862	820	761	693	—
	18	841	856	871	887	894	903	965	833	773	691	621	622	—
	19	973	973	965	965	965	973	956	940	870	799	734	717	—
	20	957	939	939	939	930	921	905	876	827	738	741	672	—
	21	922	939	939	956	956	956	947	916	855	799	779	737	—
	22	940	957	948	939	939	938	913	836	797	752	709	838	—
	23	892	924	931	931	947	939	940	831	805	755	692	704	—
	24	947	956	947	947	965	965	957	908	805	740	698	698	—
	25	926	925	932	948	948	957	957	878	778	737	689	702	—
	26	887	902	918	925	941	941	932	878	800	836	873	768	—
	27	950	950	958	966	966	974	966	927	837	770	826	803	—
	28	892	891	916	923	956	956	966	957	925	850	789	852	—
Hourly Means.		918	927	931	936	942	945	943	903	850	800	761	742	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY.	1	787	785	813	820	840	856	917	916	940	948	948	940	864
	2	654	649	666	691	753	743	816	821	864	841	840	862	839
	3	686	720	689	692	730	873	927	919	935	934	863	877	826
	4	856	852	909	926	933	933	950	941	941	957	958	940	902
	5	722	716	760	807	872	893	918	918	917	941	925	924	884
	6	684	721	664	719	753	792	843	872	903	877	893	908	838
	7	719	711	709	837	827	842	864	894	902	926	942	917	863
	8	687	751	818	819	840	854	853	852	875	906	906	906	854
	9	637	631	671	757	758	805	803	839	832	831	838	852	816
	10	841	814	758	729	729	791	840	894	901	908	925	907	878
	11	716	727	691	732	744	778	843	864	886	893	869	885	833
	12	694	734	690	665	713	863	908	924	898	921	938	946	836
	13	790	791	790	789	818	840	863	909	918	926	933	941	893
	14	871	827	778	806	777	826	909	925	941	949	948	957	914
	15	665	641	644	605	681	749	848	893	908	924	932	940	851
	16	751	737	690	719	826	862	917	941	932	949	957	948	871
	17	677	741	763	778	773	779	811	824	847	846	852	882	848
	18	575	610	638	753	939	956	947	956	966	965	965	965	833
	19	693	739	778	790	809	853	875	899	915	931	939	947	875
	20	649	617	717	782	789	822	858	874	966	850	849	905	836
	21	777	725	725	758	762	802	843	810	862	861	892	916	851
	22	756	714	744	692	763	813	871	855	870	893	908	907	846
	23	720	675	687	684	722	747	793	858	880	934	948	948	829
	24	691	646	662	685	708	739	800	858	888	910	886	918	830
	25	711	710	708	720	739	700	809	851	888	911	927	919	832
	26	761	804	769	810	823	844	865	888	919	934	926	942	870
	27	838	824	804	878	855	918	917	925	933	941	925	907	898
	28	860	798	864	859	940	950	958	966	974	974	966	966	915
Hourly Means.		731	729	736	761	793	829	870	889	907	914	944	920	858

DIRECTION OF THE WIND.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	WSW	C	WSW	WSW	C	C	WSW	NW	WNW	NW	NW	NW
2	W	C	C	C	C	C	W	W	WSW	NW	WNW	NW
3	C	C	C	C	C	C	WNW	C	NNW	WSW	NW	NW
4	C	C	C	C	C	C	C	C	WNW	WNW	NW	NW
5	N	NW	WNW	WNW	C	WNW	WNW	WNW	WNW	W	NW	NW
6	C	C	C	C	C	C	WNW	W	NW	WNW	NNW	NNW
7	C	C	C	C	C	C	WSW	NW	NW	NW	NW	NNE
8	C	C	C	C	WSW	WSW	WSW	WSW	W	W	W	NNW
9	W	C	C	W	C	C	W	W	WNW	WNW	NW	WNW
10	WNW	WNW	WNW	NNW	NW	NW	WNW	C	WNW	NW	NW	WNW
11	C	C	NNW	C	C	C	C	NW	WNW	WNW	NW	NW
12	NW	W	W	W	W	WNW	WNW	W	W	W	W	WNW
13	C	C	C	C	C	C	C	WNW	WNW	WNW	NW	NW
14	N	NW	C	C	C	C	C	C	S	S	S	S
15	C	C	C	C	N	NE	C	NE	NE	N	N	N
16	C	C	C	C	C	C	C	C	N	NW	NW	NNE
17	C	C	C	C	C	C	SSW	WNW	W	WNW	WSW	WSW
18	W	W	C	W	W	W	WSW	W	WNW	SW	NW	NNW
19	C	C	C	C	C	C	NE	NE	NNE	W	WNW	N
20	C	C	C	C	C	C	SW	W	NW	NW	NNW	NE
21	C	C	C	C	C	C	SE	ESE	N	NW	NW	WNW
22	C	C	C	C	C	SW	SW	SW	SW	W	NNW	N
23	C	C	C	C	C	C	C	W	WSW	NW	NW	N
24	SSW	SSW	SSW	C	SSW	C	SSW	SSW	NNW	NW	NNW	NNW
25	C	C	C	C	C	C	C	C	N	SSW	NNW	NNW
26	C	C	C	C	C	C	NNW	C	NNW	N	NE	NNW
27	C	C	C	C	C	C	C	N	NW	NW	N	N
28	C	C	NW	WNW	NNW	NNW	C	C	NNW	NNW	NNW	SW

FEBRUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	N	N	NNW	NW	NNW	NNW	W	W	WNW	W	W	C
2	WNW	NW	NW	NW	NNW	NW	NW	C	C	C	WNW	C
3	N	NNE	NNE	N	NNW	N	NNW	N	C	N	NW	C
4	NNW	N	WNW	WNW	WNW	WNW	C	C	C	C	WNW	NNW
5	NW	N	NNE	NNW	NW	W	W	W	C	W	WNW	WNW
6	NNW	N	NNE	N	NNE	N	C	C	N	WSW	C	C
7	NNW	N	NNW	SW	SW	WSW	C	C	C	C	C	WSW
8	NW	WNW	WNW	NNW	W	W	WNW	W	W	W	W	W
9	W	NW	NW	NNW	W	WNW	WSW	WSW	C	C	C	WSW
10	WNW	WNW	WNW	NW	NW	C	C	C	C	C	C	C
11	NW	NW	NNW	NNW	NW	NW	C	C	C	C	C	C
12	WNW	NNW	NW	NW	SW	SW	SSW	SW	W	NW	WNW	WNW
13	NNW	NNW	NNW	NNW	N	N	C	C	C	C	C	N
14	SSE	NE	NNE	N	N	N	C	C	C	C	C	C
15	WNW	N	NNW	NNW	NNE	NNE	C	C	C	C	C	C
16	N	NNW	NNW	NW	SSW	SSW	C	C	C	C	C	C
17	SW	SSW	SSW	SW	SW	WSW	W	W	W	W	C	C
18	WNW	WNW	NNW	NNE	ENE	NE	C	C	C	C	C	C
19	N	N	N	W	SW	WSW	SW	SW	C	C	C	C
20	NE	N	NNE	NNE	N	WSW	W	WSW	S	S	C	C
21	NNW	N	NNW	W	WSW	SW	SW	C	C	C	C	C
22	NNW	NW	NNW	NW	NW	WSW	C	C	C	C	C	C
23	NNE	N	NNE	N	NNE	NNE	NNE	C	C	NNE	W	SSW
24	NW	NW	NNE	N	N	N	C	C	C	C	C	C
25	NNW	NNW	NNW	NNW	NW	NNW	NNW	C	C	C	C	NNW
26	N	N	N	NNW	N	N	N	C	C	C	C	C
27	N	N	N	SSW	SSW	W	C	C	C	C	C	C
28	SW	W	W	W	NNE	C	C	C	C	C	C	NNE

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY. 1	1.6	0.0	0.8	1.6	0.0	0.0	0.8	3.2	4.0	9.7	6.4	9.7	—
2	0.8	0.0	0.0	0.0	0.0	0.0	0.8	4.0	2.4	4.8	5.6	8.9	—
3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.2	4.0	5.6	5.6	—
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	6.4	9.7	—
5	8.9	8.9	4.8	0.8	0.0	0.8	0.8	1.6	3.2	3.2	7.2	9.7	—
6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	4.8	5.6	11.3	8.9	—
7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.0	8.0	6.4	7.2	9.7	
8	0.0	0.0	0.0	0.0	1.6	1.6	1.6	0.8	4.8	6.4	8.0	12.9	—
9	0.8	0.0	0.0	0.8	0.0	0.0	0.8	1.6	4.8	7.2	8.0	9.7	—
10	1.6	0.8	1.6	6.4	3.2	3.2	2.4	0.0	2.4	3.2	3.2	3.2	—
11	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8	3.2	9.7	13.7	9.7	—
12	0.8	4.8	5.6	6.4	4.8	1.6	1.6	1.6	3.2	3.2	4.8	4.8	—
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	4.0	7.2	10.5	
14	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	
15	0.0	0.0	0.0	0.0	4.8	1.6	0.0	0.8	0.8	2.4	1.6	3.2	—
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8	9.7	—
17	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	6.4	8.0	9.7	11.3	—
18	0.8	0.8	0.0	0.8	1.6	1.6	1.6	0.8	3.2	4.0	4.8	5.6	—
19	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	2.4	2.4	3.2	3.2	—
20	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.8	4.0	4.8	8.0	—
21	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.0	6.4	6.4	8.0	—
22	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.8	4.0	4.8	7.2	8.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.0	6.4	4.8	4.8	—
24	0.8	1.6	1.6	0.0	0.8	0.0	0.8	0.8	4.8	6.4	7.2	8.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	5.6	4.8	7.2	—
26	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.4	10.5	8.0	9.7	—
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.0	6.4	8.0	8.0	—
28	0.0	0.0	1.6	1.6	1.6	0.8	0.0	0.0	0.8	3.2	5.6	5.6	—
Hourly Means.	0.63	0.63	0.60	0.66	0.66	0.43	0.74	1.20	3.49	5.24	6.30	7.65	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY. 1	10.5	12.9	8.9	8.0	4.8	0.8	3.2	0.8	1.6	0.8	0.8	0.0	3.79
2	8.0	8.0	8.0	5.6	7.2	3.2	0.8	0.0	0.0	0.0	0.8	0.0	2.87
3	8.9	12.1	9.7	8.9	8.0	6.4	1.6	0.8	0.0	0.8	1.6	0.0	3.25
4	8.9	7.2	1.6	0.8	1.6	1.6	0.0	0.0	0.0	0.0	6.4	8.9	2.61
5	8.9	11.3	12.1	6.4	1.6	1.6	1.6	0.8	0.0	0.8	2.4	0.8	4.09
6	9.7	12.1	13.7	10.5	6.4	1.6	0.0	0.0	1.6	3.2	0.0	0.0	3.86
7	9.7	11.3	8.9	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.8	3.12
8	17.7	17.7	12.9	8.0	4.0	2.4	4.8	1.6	0.8	0.8	0.8	0.8	4.58
9	10.5	10.5	12.9	8.9	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.8	3.55
10	2.4	4.0	5.6	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.20
11	12.1	12.1	8.9	8.9	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.50
12	4.8	10.5	8.9	9.7	5.6	1.6	3.2	4.8	4.8	1.6	0.8	0.8	4.18
13	12.1	9.7	8.0	5.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	2.4	2.71
14	3.2	4.0	7.2	4.0	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.23
15	4.8	8.9	8.0	4.8	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.00
16	14.5	12.9	8.0	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.78
17	12.1	11.3	4.8	1.6	1.6	2.4	2.4	1.6	0.8	0.8	0.0	0.0	3.32
18	4.8	4.0	6.4	19.3	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.74
19	4.8	8.9	12.1	7.2	7.2	5.6	1.6	0.8	0.0	0.0	0.0	0.0	2.54
20	8.9	11.3	13.7	12.1	8.9	6.4	1.6	3.2	3.2	3.2	0.0	0.0	4.05
21	11.3	11.3	8.0	5.6	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	2.94
22	9.7	8.0	8.0	6.4	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.80
23	12.1	11.3	13.7	11.3	9.7	5.6	0.8	0.0	0.0	3.2	3.2	3.2	3.95
24	10.5	11.3	9.7	10.5	8.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	3.55
25	9.7	12.9	12.9	10.5	6.4	3.2	0.8	0.0	0.0	0.0	0.0	0.8	3.28
26	8.9	9.7	8.0	6.4	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	3.05
27	9.7	9.7	6.4	5.6	3.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0	2.78
28	4.8	5.6	3.2	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.70
Hourly Means.	9.07	10.02	8.94	7.41	4.75	2.43	0.91	0.54	0.46	0.54	0.60	0.72	3.11

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY.	1	7	5	3	3	2	3	8	7	9	10	10	10	—
	2	10	7	3	2	2	3	9	9	8	8	8	3	—
	3	8	7	7	7	7	7	4	2	2	2	3	3	—
	4	7	9	7	7	6	8	10	10	8	10	10	9	—
	5	10	10	9	9	9	9	10	10	10	10	9	6	—
	6	8	5	4	4	3	2	8	7	7	8	8	9	—
	7	2	3	2	2	2	4	8	9	7	6	8	9	—
	8	7	5	5	6	4	6	8	8	9	7	9	6	—
	9	3	5	5	4	3	3	4	5	4	4	3	5	—
	10	10	10	10	10	10	10	10	10	10	10	10	10	—
	11	9	6	4	8	5	8	10	10	9	9	9	10	—
	12	9	10	10	10	9	10	10	10	9	9	8	10	—
	13	10	10	10	10	10	10	10	10	10	10	10	10	—
	14	10	10	10	10	10	10	10	10	10	10	10	10	—
	15	9	9	9	8	10	10	10	10	10	10	10	9	—
	16	1	2	4	8	8	8	9	4	3	4	7	7	—
	17	9	9	9	9	9	9	9	9	9	7	7	8	—
	18	10	6	7	8	7	6	4	3	3	2	2	3	—
	19	10	9	5	5	8	6	3	1	2	6	7	8	—
	20	9	9	9	7	8	9	4	2	3	5	5	4	—
	21	4	5	4	5	6	5	8	8	7	8	9	8	—
	22	1	2	1	5	6	4	1	0	0	2	9	9	—
	23	1	8	6	6	6	5	4	3	2	3	2	7	—
	24	7	7	8	5	5	10	1	0	0	0	6	6	—
	25	2	1	2	2	1	3	2	1	2	3	6	9	—
	26	2	2	3	4	3	8	7	8	8	10	8	8	—
	27	3	2	3	1	7	6	2	0	3	8	8	10	—
	28	10	10	10	10	10	10	10	10	7	6	9	9	—
Hourly Means.		6.7	6.5	6.0	6.3	6.3	6.9	6.9	6.3	6.1	6.7	7.5	7.7	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY.	1	10	10	10	10	10	10	10	10	10	10	10	10	8.2
	2	6	7	10	10	9	9	8	9	10	10	9	10	7.5
	3	5	4	3	3	9	10	9	8	7	5	4	5	5.5
	4	10	10	10	10	9	10	8	9	6	9	9	10	8.8
	5	6	9	6	10	10	10	10	10	10	8	9	9	9.1
	6	8	7	4	4	5	5	6	7	9	7	10	6	6.3
	7	8	9	9	9	9	10	8	9	9	7	5	9	6.8
	8	9	8	9	9	10	10	8	7	7	9	8	3	7.4
	9	8	7	7	8	10	9	8	9	8	8	8	9	6.1
	10	10	7	7	9	6	7	9	9	9	5	8	10	9.0
	11	10	10	10	10	10	10	10	10	10	10	10	10	9.0
	12	10	9	9	9	10	10	10	10	10	10	10	10	9.6
	13	10	10	9	9	9	9	10	10	10	9	10	10	9.8
	14	10	10	9	7	6	4	2	2	2	1	5	6	7.7
	15	8	6	4	3	2	1	7	3	2	6	3	1	6.7
	16	4	3	7	10	10	10	10	10	4	4	6	10	6.4
	17	9	10	10	10	9	6	6	5	7	10	10	9	8.5
	18	5	7	9	10	10	10	9	8	4	3	3	2	5.9
	19	8	9	9	10	8	9	2	4	2	5	7	8	6.3
	20	6	4	3	1	10	10	9	7	9	8	5	5	6.3
	21	10	6	4	10	9	7	6	2	1	8	9	6	6.5
	22	9	8	7	6	6	9	8	9	6	4	8	3	5.1
	23	2	1	0	0	0	0	1	1	2	10	10	9	3.7
	24	4	1	1	1	0	1	2	3	2	1	1	0	3.0
	25	7	5	4	3	2	1	2	2	4	7	6	9	3.6
	26	8	9	10	10	10	10	7	2	1	5	6	5	6.4
	27	8	8	7	10	8	9	9	9	10	9	10	10	6.7
	28	8	9	10	10	10	9	6	8	8	6	3	5	8.5
Hourly Means.		7.7	7.3	7.0	7.5	7.7	7.7	7.1	6.9	6.4	6.9	7.2	7.1	6.93

DURATION OF SUNSHINE.

FEBRUARY.

Mean Batavia Time.	8—8½ A. M.	8½—9	9—9½	9½—10	10—10½	10½—11	11—11½	11½—12	12—12½	12½—1 P. M.	1—1½	1½—2	2—2½	2½—3	3—3½	3½—4	Daily and Monthly Means.
1	2	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0.3
2	0	6	7	8	8	2	4	7	10	8	5	4	6	0	0	0	4.7
3	7	7	10	10	8	10	7	9	6	5	6	4	5	6	8	7	7.2
4	0	2	1	1	0	6	4	6	2	0	0	0	0	0	0	0	1.4
5	0	0	0	0	4	7	7	9	9	8	6	7	8	7	4	1	4.8
6	10	8	6	8	6	7	7	4	4	8	3	5	10	10	10	10	7.3
7	3	6	6	9	8	8	7	7	6	7	8	10	10	8	0	1	6.5
8	6	6	4	7	7	9	7	4	7	8	6	9	1	0	0	2	5.2
9	10	10	10	10	10	10	7	8	7	7	5	7	10	8	7	3	8.1
10	0	0	0	0	0	1	0	0	0	0	1	3	7	6	4	5	1.7
11	0	0	5	5	4	4	8	3	2	3	2	2	1	0	0	0	2.4
12	0	0	0	0	0	0	7	3	0	0	0	0	0	2	7	5	1.5
13	0	0	0	0	0	0	1	1	4	4	3	3	1	2	1	2	1.4
14	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4	2	0.8
15	1	0	0	4	2	6	0	0	6	9	10	8	10	10	8	9	5.2
16	9	8	7	9	7	8	8	3	3	7	10	9	10	9	1	0	6.8
17	1	0	4	4	7	8	7	7	8	1	7	2	0	0	0	0	3.5
18	10	10	10	9	10	10	10	10	9	9	9	3	2	4	4	4	7.7
19	10	10	10	9	10	8	6	8	8	6	6	3	3	6	1	0	6.5
20	10	10	7	7	8	5	9	10	10	10	6	8	10	10	9	10	8.7
21	7	7	8	8	4	1	1	3	0	3	7	9	10	10	9	6	5.8
22	10	9	9	8	8	8	1	0	6	3	6	8	2	1	5	6	5.6
23	8	9	10	7	9	8	7	4	3	7	9	9	10	10	10	10	8.1
24	10	10	10	9	8	8	6	3	7	6	10	10	10	10	10	10	8.6
25	10	10	10	10	7	9	7	2	7	9	6	10	9	10	9	9	8.4
26	7	4	5	5	10	5	5	8	7	6	7	5	6	5	3	2	5.6
27	10	7	8	8	6	1	6	0	0	0	0	0	0	7	3	0	3.5
28	1	9	9	10	9	6	4	2	1	3	6	4	1	0	0	0	4.1
Means.	5.1	5.3	5.6	5.9	5.7	5.6	5.1	4.3	4.8	4.9	5.1	5.1	5.2	5.1	4.2	3.7	5.0

BLACK BULB THERMOMETER IN VACUO.

FEBRUARY.

Mean Batavia Time.	7h30 A M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2 30	3	3h30	4	4h30
1	28.7	41.8	37.1	38.2	38.9	42.1	45.4	39.3	41.4	46.1	41.1	37.5	37.6	35.3	35.2	34.9	34.5	30.7	29.0
2	26.9	30.2	33.9	39.9	43.0	43.0	45.1	39.8	50.9	53.9	54.3	54.7	49.7	50.6	47.4	42.1	40.0	38.3	36.3
3	37.7	43.0	45.2	49.0	50.9	51.9	52.1	54.3	49.3	52.9	46.6	53.0	49.1	48.4	45.5	49.6	46.2	40.2	34.5
4	26.4	31.9	36.6	39.3	39.4	39.9	42.1	46.9	48.7	48.9	—	38.8	41.4	36.8	—	—	—	26.8	27.9
5	27.4	29.5	31.9	35.4	38.0	43.5	49.1	45.9	51.6	49.4	50.4	49.8	48.9	46.8	47.5	41.4	46.4	30.4	29.4
6	32.6	40.6	46.1	48.0	44.9	50.0	47.1	48.6	53.4	42.8	43.6	49.6	42.1	44.4	50.9	52.1	46.9	42.4	36.2
7	35.2	38.8	36.7	44.3	44.0	49.4	51.3	49.5	52.0	44.4	52.7	51.2	54.6	48.8	46.0	41.9	35.0	34.6	32.4
8	32.4	42.4	40.7	45.9	46.9	51.9	51.0	50.2	48.4	44.5	53.1	42.6	53.2	45.0	40.6	37.0	38.4	36.7	32.6
9	31.9	37.9	40.1	43.4	45.0	49.5	49.6	53.4	49.9	55.6	54.1	52.9	46.4	52.9	53.3	51.0	51.8	37.9	38.3
10	—	—	27.1	30.5	29.9	31.1	34.7	40.8	40.3	39.3	37.9	37.9	40.9	47.9	48.4	40.4	49.4	38.9	39.4
11	27.8	28.3	30.9	35.2	44.6	51.7	43.1	45.2	46.6	39.1	43.6	48.4	43.4	42.4	42.1	38.3	36.3	36.8	34.9
12	28.1	31.3	33.6	35.0	35.4	40.4	42.4	48.7	51.4	47.0	47.3	43.0	41.3	43.6	43.0	51.1	50.7	39.7	37.5
13	24.9	26.9	28.4	32.4	34.7	37.9	38.5	41.4	44.4	44.2	45.6	44.0	43.7	41.0	42.1	36.7	38.9	35.4	33.0
14	—	25.5	26.6	28.9	29.1	30.9	34.3	35.4	34.1	—	38.7	36.7	37.1	41.6	43.4	41.4	41.9	33.9	34.1
15	27.7	34.1	34.4	32.3	34.6	43.6	43.9	41.3	36.1	36.3	50.1	53.4	49.8	52.4	50.9	50.3	48.4	46.9	39.4
16	29.6	36.0	43.4	48.2	48.7	51.9	44.4	49.9	53.7	42.5	41.9	51.9	51.7	50.1	50.3	44.4	34.7	30.4	30.4
17	28.4	32.6	36.0	37.0	40.5	46.3	51.9	52.8	53.1	50.3	50.3	46.3	45.2	38.0	36.9	35.6	36.3	33.9	32.9
18	34.6	40.2	41.2	49.2	49.1	52.4	52.9	52.4	53.1	55.0	55.0	56.4	52.7	47.2	48.3	44.1	39.0	34.0	—
19	27.4	44.4	47.4	50.3	49.3	49.9	52.4	46.4	49.4	44.4	55.9	48.9	48.3	41.9	52.3	43.0	39.4	31.2	32.4
20	39.0	44.9	47.4	50.4	47.0	50.4	49.6	44.0	54.1	53.4	55.2	52.6	53.1	51.9	51.4	44.4	50.4	44.3	40.3
21	30.6	37.0	36.6	46.4	45.9	44.8	45.1	43.0	49.9	53.8	42.3	45.6	51.4	53.4	50.4	48.3	50.0	36.9	37.2
22	36.6	43.5	46.0	48.8	48.9	49.4	50.4	48.3	41.4	45.0	45.5	39.3	52.3	50.5	36.2	43.0	42.1	37.2	32.5
23	40.4	48.3	46.1	49.9	49.9	52.4	52.5	52.4	47.6	40.6	56.7	46.7	51.4	51.4	51.4	49.7	49.8	42.6	42.3
24	38.9	43.4	43.3	50.0	50.4	53.3	49.3	50.5	47.3	44.4	42.2	46.5	53.8	52.4	51.4	50.9	50.1	40.4	42.3
25	39.0	43.7	47.6	50.0	50.9	50.0	49.5	55.8	45.9	50.4	48.5	52.4	49.0	52.3	52.9	51.9	52.3	41.9	40.4
26	34.8	35.6	41.8	47.2	47.0	37.8	—	47.4	46.7	51.6	44.9	48.4	46.8	44.9	45.3	39.9	40.0	35.9	33.9
27	36.6	43.9	47.2	46.2	50.5	51.2	51.8	50.4	41.6	—	32.9	35.4	34.7	35.5	37.0	41.4	30.7	26.9	27.8
28	24.5	28.4	33.4	42.0	47.9	51.1	51.4	48.9	35.9	43.4	41.2	41.7	48.9	43.4	—	26.6	26.5	—	—
Means.	31.85	37.19	38.81	42.62	43.76	46.35	47.07	47.25	47.08	46.89	47.10	46.63	47.09	46.10	46.16	43.39	42.45	36.49	34.90

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIEVE OUT OF SCALE.

FEBRUARY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	6.6	7.1	7.6	6.1	8.6	9.6	20.2	7.1	5.6	4.6	3.0	2.5	—
2	11.1	6.6	11.1	11.6	10.6	13.2	16.2	8.1	4.6	4.0	4.0	3.5	—
3	10.6	16.6	12.6	10.1	10.1	12.1	13.6	8.6	7.1	4.0	3.5	4.0	—
4	10.1	9.6	14.2	9.1	8.1	6.1	9.6	9.1	6.6	4.6	3.5	5.1	—
5	P N	P N	P N	8.1	9.6	10.6	13.6	8.1	7.6	3.0	5.1	5.1	—
6	8.1	7.6	8.1	8.6	8.1	7.6	17.2	8.1	4.6	3.5	2.0	2.5	—
7	17.6	15.6	14.6	15.2	17.2	28.8	25.8	12.1	7.6	4.0	3.5	1.5	—
8	12.1	12.1	11.6	10.1	8.6	6.6	10.1	4.6	4.6	2.5	4.0	2.0	—
9	9.6	7.6	7.1	—	—	—	—	7.1	5.1	2.5	2.0	0.5	—
10	6.1	— 3.5	9.1	P N	P N	P N	P N	5.1	19.6	4.0	4.6	5.1	—
11	12.6	11.1	8.6	7.6	7.6	7.6	12.6	8.6	6.6	5.6	3.5	4.6	—
12	11.6	3.5	3.0	2.0	3.5	4.0	4.6	5.1	6.1	5.1	4.0	5.6	—
13	8.1	10.6	12.6	16.2	14.6	21.2	28.8	14.2	7.1	6.1	5.6	1.5	—
14	N	N	5.6	4.0	5.1	— 0.5	3.0	7.6	10.1	4.0	4.0	— 3.0	—
15	17.6	1.0	11.6	28.8	15.2	0.0	7.6	3.5	3.5	3.5	2.5	3.5	—
16	14.2	16.6	18.6	13.2	11.6	10.6	12.1	7.6	3.5	3.5	3.0	1.0	—
17	12.6	15.2	14.2	14.2	—	—	8.6	1.5	5.6	3.5	1.5	2.5	—
18	10.1	8.6	8.1	8.6	8.1	9.1	15.2	14.2	9.1	5.6	4.0	3.5	—
19	17.6	15.2	7.1	6.1	8.6	12.6	19.2	9.1	5.1	4.6	3.5	4.0	—
20	9.6	8.1	6.6	6.1	5.6	2.5	10.6	6.6	6.6	5.1	2.5	2.5	—
21	14.2	16.2	12.6	11.6	13.6	17.2	14.2	5.1	4.0	2.5	4.6	2.5	—
22	8.6	8.1	6.6	5.1	4.0	5.1	4.0	7.6	4.0	4.0	4.0	2.5	—
23	8.1	8.1	6.6	6.1	11.6	13.6	16.6	4.6	4.0	2.5	2.0	1.0	—
24	— 2.0	7.6	6.6	17.2	10.6	7.1	12.1	11.1	5.6	4.6	4.0	3.5	—
25	17.6	12.6	19.2	17.2	15.6	31.9	24.3	—	—	—	—	—	—
26	—	—	—	—	—	—	—	—	—	—	2.5	2.5	—
27	8.6	11.1	24.3	25.3	27.8	27.3	26.8	15.2	7.6	3.5	— 7.6	11.6	—
28	5.6	6.6	N	4.6	N	— 5.1	7.6	13.6	6.6	4.6	2.5	— 20.2	—
Hourly Means.	10.7	9.6	10.7	10.9	10.6	10.8	14.2	8.2	6.5	4.0	3.0	2.3	—

FEBRUARY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	0.5	2.0	3.5	5.1	9.6	23.8	P	— 4.0	9.1	10.1	— 3.0	12.6	6.9
2	4.0	4.0	4.6	5.1	6.1	N	16.6	15.6	24.3	17.6	13.2	13.2	10.0
3	4.0	3.5	3.0	P N	P N	P N	P N	— 0.5	14.6	13.6	7.6	8.1	8.3
4	P N	P N	P N	28.3	10.6	9.6	11.6	18.2	24.3	14.6	19.6	P N	11.6
5	4.0	3.0	4.0	P	9.6	13.6	14.6	4.6	— 2.5	16.6	11.1	7.6	7.9
6	2.0	2.5	1.0	3.5	5.6	11.6	22.8	10.6	16.2	20.2	19.2	16.6	9.1
7	1.5	2.5	13.6	12.1	7.6	9.6	16.2	18.2	16.6	20.6	19.6	14.2	13.2
8	2.0	— 1.5	5.6	— 9.1	4.0	6.6	10.1	10.1	10.6	11.6	9.6	8.6	6.5
9	1.5	1.0	0.0	6.6	15.2	25.3	1.5	6.1	8.1	10.6	11.6	8.1	6.9
10	5.1	1.0	3.0	4.0	4.0	7.1	11.1	17.2	27.8	22.8	19.2	13.2	9.3
11	2.0	3.0	3.5	4.6	4.0	6.1	9.1	16.6	28.8	11.6	9.6	9.6	8.5
12	4.0	1.0	3.5	3.5	P N	P N	P N	P N	P N	P N	P N	P N	4.4
13	2.5	3.0	3.5	4.0	5.6	7.6	10.1	14.6	23.8	19.6	30.9	18.6	12.1
14	2.5	2.0	2.5	3.0	4.0	6.6	10.6	20.6	32.4	24.3	17.2	15.6	8.2
15	2.5	3.5	3.5	3.5	4.6	2.5	11.6	19.2	28.8	26.8	16.6	18.6	10.0
16	1.5	4.0	19.6	P N	P N	P N	P N	10.6	14.6	18.6	17.6	15.6	10.9
17	— 10.1	4.0	3.5	3.0	4.0	8.1	9.6	12.6	13.2	10.1	9.6	11.1	7.2
18	3.5	5.1	10.1	P	P N	0.0	— 4.0	0.0	1.0	1.5	5.1	9.6	6.2
19	3.5	9.6	6.1	19.2	10.1	12.6	0.0	8.1	9.6	9.6	10.1	9.1	9.2
20	3.5	4.0	4.0	4.6	5.1	10.1	18.6	19.6	10.6	8.1	11.1	13.6	7.7
21	1.0	1.0	2.5	4.6	5.6	7.6	10.1	13.6	14.6	10.6	12.6	9.1	8.8
22	9.6	4.0	3.5	4.0	7.6	7.1	14.2	21.7	13.2	10.1	13.6	10.1	7.6
23	0.5	1.5	1.5	2.0	4.0	6.1	11.1	14.6	15.2	P N	P N	P N	6.7
24	3.5	3.5	2.5	3.0	4.0	6.6	14.2	14.2	18.6	18.2	15.6	15.2	8.6
25	—	—	—	—	—	—	—	—	—	—	—	—	19.8
26	2.5	3.5	4.0	3.5	—	—	9.6	12.6	15.2	15.2	19.2	17.2	9.0
27	P N	10.6	29.3	N	N	15.2	10.6	12.6	12.6	14.6	10.6	5.1	14.4
28	— 1.5	4.6	N	N	6.6	8.6	12.6	20.2	20.2	20.6	19.2	N	7.2
Hourly Means.	2.2	3.3	5.7	5.6	6.5	9.6	11.0	12.6	16.2	15.1	13.9	12.2	8.98

BAROMETRIC PRESSURE.

BAROMETER AT 0° C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

MARCH. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	10.43	10.04	10.06	9.98	10.34	10.70	10.95	11.56	11.68	11.39	11.38	10.98	—
2	10.91	10.63	9.94	10.30	10.41	10.53	11.45	11.88	12.20	12.22	12.04	11.57	—
3	11.23	10.79	10.44	10.35	10.76	11.06	11.66	11.95	12.56	12.59	12.41	11.97	—
4	12.06	11.83	11.69	10.94	11.00	11.71	12.09	12.34	12.84	12.72	12.57	12.37	—
5	12.64	12.65	12.60	12.46	12.31	12.51	12.86	12.92	12.76	12.72	12.51	12.09	—
6	12.05	11.64	11.18	11.05	11.03	11.46	11.57	12.22	12.39	12.23	11.97	11.28	—
7	11.56	10.79	10.80	10.96	11.23	11.45	11.96	12.33	12.66	12.55	11.94	11.31	—
8	10.83	10.57	10.24	10.19	10.66	10.88	11.64	11.71	12.04	11.79	11.54	11.16	—
9	11.64	11.16	10.69	10.62	10.68	11.15	11.49	11.85	11.74	11.69	11.54	10.59	—
10	10.48	9.83	9.49	9.45	9.50	9.90	10.53	10.89	10.89	10.69	10.44	9.78	—
11	10.39	9.69	9.47	9.63	9.76	9.94	10.35	10.76	11.13	11.00	10.73	10.02	—
12	9.96	9.78	9.38	9.24	9.25	9.60	10.35	10.96	11.19	11.19	10.78	9.99	—
13	10.18	9.89	9.55	9.74	10.00	10.43	10.99	11.73	12.36	12.89	12.44	11.68	—
14	11.33	10.98	10.90	10.82	11.10	11.26	11.51	12.05	12.34	12.35	12.00	11.49	—
15	11.35	10.85	10.61	10.54	10.85	11.22	11.82	12.33	12.38	12.27	11.75	11.16	—
16	10.64	10.10	9.86	9.74	10.06	10.30	10.54	10.97	11.21	11.19	10.73	10.13	—
17	9.89	9.34	9.10	9.03	9.44	9.73	10.15	10.78	11.30	11.58	10.98	10.47	—
18	10.50	10.02	9.73	9.75	9.63	9.86	10.53	11.08	11.39	11.58	11.39	10.60	—
19	10.54	10.10	9.97	9.94	10.01	10.63	11.34	11.35	11.59	11.43	10.87	10.46	—
20	10.90	10.59	10.25	10.01	10.04	9.85	10.21	10.58	10.90	10.90	10.55	9.85	—
21	8.90	8.50	8.10	8.05	8.08	8.54	8.78	8.95	9.16	9.17	8.83	8.21	—
22	8.33	7.98	7.69	7.60	7.87	8.30	9.04	9.24	9.44	9.08	8.87	8.18	—
23	7.90	7.59	7.94	8.30	8.28	8.80	8.95	9.69	10.21	9.95	9.80	9.12	—
24	8.85	8.46	8.21	8.21	8.38	8.99	9.55	9.94	10.15	10.18	9.78	9.02	—
25	10.09	9.74	9.29	9.45	9.49	9.80	10.60	10.93	11.29	11.44	11.09	10.51	—
26	11.06	10.48	10.22	10.08	10.01	10.43	10.75	11.03	11.54	11.76	11.52	11.05	—
27	9.89	9.55	9.07	8.79	9.13	9.18	10.00	10.63	10.72	11.19	10.62	9.73	—
28	9.29	8.95	8.67	8.53	8.58	8.54	9.04	9.74	10.04	10.25	9.75	9.07	—
29	9.06	8.48	8.39	8.01	8.13	8.70	8.98	9.62	9.86	9.71	9.24	8.42	—
30	8.28	7.94	8.05	7.89	7.95	8.10	8.34	9.06	9.44	9.31	8.98	8.48	—
31	8.27	7.65	7.28	7.04	7.30	7.80	8.30	9.05	9.19	9.20	9.01	8.48	—
Hourly Means.	10.30	9.89	9.64	9.57	9.72	10.04	10.53	10.97	11.24	11.23	10.90	10.30	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	10.12	9.56	8.89	8.69	8.77	9.50	10.12	10.44	11.23	11.66	11.70	11.60	10.49
2	10.85	10.11	9.53	9.38	9.80	10.36	11.07	11.43	11.78	12.27	12.09	11.91	11.03
3	11.35	10.74	10.49	10.31	10.11	10.61	11.18	11.85	12.53	12.83	12.89	12.50	11.47
4	11.47	11.62	11.18	11.27	11.58	11.91	11.83	12.56	13.19	13.94	13.69	13.19	12.15
5	11.45	10.72	9.98	9.97	10.14	10.73	11.52	12.25	12.59	12.86	12.70	12.38	12.01
6	10.30	9.92	9.47	9.67	9.63	10.46	11.18	11.74	12.00	12.33	11.94	11.63	11.26
7	10.75	10.00	9.33	9.10	9.13	9.70	10.54	11.27	11.55	11.74	11.63	11.45	11.07
8	10.09	9.67	8.96	8.87	9.33	9.89	10.58	11.18	11.51	11.95	11.97	11.70	10.79
9	9.65	8.78	8.57	7.87	8.41	9.39	10.17	10.05	10.76	11.20	11.18	10.94	10.49
10	9.07	8.36	8.57	8.44	8.75	9.42	9.57	10.40	10.89	11.11	10.98	10.59	9.92
11	8.88	8.22	7.87	8.32	8.93	9.41	10.02	10.49	10.99	11.10	11.03	10.59	9.95
12	9.11	8.38	8.22	7.93	8.41	9.36	10.03	10.99	11.04	11.28	11.26	11.15	9.95
13	10.69	10.53	9.78	9.51	9.81	10.35	10.73	10.93	11.35	11.90	12.16	11.83	10.89
14	10.58	9.65	9.08	9.32	9.39	10.15	10.93	11.58	11.99	12.13	12.20	11.95	11.13
15	10.27	9.46	9.06	9.04	9.22	9.07	9.61	10.36	10.69	10.92	10.84	10.71	10.68
16	9.51	8.93	8.57	8.16	8.33	9.05	9.39	9.84	10.27	10.46	10.59	10.33	9.95
17	9.64	8.77	8.46	8.51	8.78	9.46	9.93	10.53	11.16	11.55	11.58	11.14	10.05
18	10.37	9.40	8.65	8.36	8.01	8.57	9.46	10.05	10.67	11.05	11.01	11.13	10.12.
19	9.44	8.52	8.22	8.67	9.43	9.72	10.28	10.84	11.33	11.34	11.42	11.39	10.37
20	8.98	8.16	7.64	7.22	7.48	7.92	8.43	8.73	9.23	9.40	9.52	9.53	9.45
21	7.46	6.70	6.38	6.85	7.03	7.58	7.75	8.13	8.76	9.28	9.26	8.88	8.22
22	7.32	7.24	6.43	6.91	7.32	8.58	8.46	8.85	9.46	9.74	9.58	8.65	8.34
23	8.45	7.60	6.82	6.59	7.27	7.85	8.04	8.64	9.32	9.39	9.60	9.36	8.56
24	8.27	7.68	7.76	7.89	7.57	8.34	8.98	9.44	10.00	10.62	10.77	10.62	9.07
25	10.31	9.42	8.89	8.62	8.83	9.36	10.02	10.40	10.97	11.44	11.41	11.20	10.19
26	10.36	9.29	8.67	8.66	9.07	9.42	9.42	9.60	9.94	10.36	10.44	10.26	10.23
27	8.74	8.30	7.68	7.28	7.92	8.48	9.16	9.79	10.03	10.31	10.45	10.23	9.45
28	8.41	7.63	7.04	6.98	7.17	7.47	8.48	9.30	9.59	10.00	10.22	9.60	8.85
29	7.42	6.93	6.25	6.43	7.37	8.09	8.57	8.96	9.24	9.15	8.96	8.49	8.44
30	7.55	7.02	6.40	6.36	7.02	7.38	8.55	9.02	9.12	9.31	9.21	8.84	8.23
31	7.85	7.45	7.46	7.67	8.30	8.67	8.52	8.46	8.98	9.16	9.19	9.12	8.31
Hourly Means.	9.51	8.86	8.40	8.35	8.66	9.23	9.76	10.26	10.71	11.03	11.02	10.74	10.04

STANDARD THERMOMETER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH. 1	76.6	76.1	76.3	76.1	75.9	75.8	75.7	76.0	76.9	78.1	79.8	82.1	—
2	76.0	76.0	75.4	75.2	74.6	74.6	74.8	75.2	77.9	79.9	82.3	82.1	—
3	76.3	76.1	76.1	75.8	75.6	75.3	76.0	78.0	79.4	81.4	83.5	83.9	—
4	76.5	76.5	76.5	76.0	75.7	75.0	75.3	76.6	78.2	80.5	83.8	82.5	—
5	74.5	74.6	74.6	74.6	74.2	74.0	74.5	76.0	78.9	81.2	83.2	85.0	—
6	77.0	76.6	76.2	75.4	74.8	74.8	75.2	77.0	79.5	82.5	85.1	86.0	—
7	76.1	75.8	75.5	75.0	74.9	74.6	75.0	77.2	81.0	83.2	84.9	85.1	—
8	77.6	76.9	76.1	75.4	74.9	74.6	75.1	77.7	80.4	83.0	85.0	86.1	—
9	77.0	76.5	76.5	76.0	75.6	75.1	75.5	77.7	80.7	82.8	84.0	84.2	—
10	76.7	76.5	76.3	76.0	75.6	75.5	76.3	78.5	81.6	83.9	85.9	84.5	—
11	77.1	76.8	76.0	76.0	75.4	75.0	75.6	78.0	81.3	84.4	85.0	86.7	—
12	75.8	75.5	75.5	75.4	75.3	75.1	76.0	78.9	81.3	84.0	85.7	86.4	—
13	76.9	76.5	76.3	76.0	75.4	75.4	75.7	76.0	76.4	74.2	74.4	74.4	—
14	75.0	74.6	73.9	73.5	73.3	73.4	73.6	76.4	79.1	80.3	82.4	83.8	—
15	75.7	75.5	75.0	74.4	74.2	73.8	75.2	77.2	78.3	80.5	83.0	84.0	—
16	76.0	75.3	75.1	74.7	74.1	73.5	73.8	76.1	80.8	83.0	84.5	84.4	—
17	77.9	77.4	76.8	76.4	75.8	75.3	76.0	79.2	81.6	79.0	79.5	83.3	—
18	77.1	76.7	76.1	75.6	74.8	74.3	74.6	76.4	80.2	83.3	84.9	85.4	—
19	77.0	76.5	76.4	76.1	76.0	76.1	76.4	77.6	80.1	82.0	84.5	84.4	—
20	76.5	75.7	75.1	74.7	74.5	74.3	74.9	77.5	80.5	83.1	85.1	87.0	—
21	78.5	78.2	78.8	78.2	77.0	77.1	77.5	80.0	82.6	84.2	86.0	87.0	—
22	77.9	77.4	76.6	76.5	76.0	75.6	76.0	78.2	81.1	83.7	83.3	85.8	—
23	76.5	76.3	75.9	75.3	75.1	74.9	75.1	75.6	77.2	81.0	83.2	83.3	—
24	78.6	78.4	78.0	77.9	77.7	77.3	77.6	80.1	82.1	83.0	83.2	85.2	—
25	77.0	76.6	76.3	76.3	76.1	76.0	76.4	78.7	81.5	84.2	85.7	84.6	—
26	77.9	77.7	77.2	76.9	76.5	76.1	76.5	78.7	80.6	83.5	85.2	85.1	—
27	77.4	76.8	76.2	75.6	75.6	75.4	75.7	78.1	80.3	81.9	81.9	82.1	—
28	77.8	77.5	77.0	77.0	77.0	76.6	77.4	79.0	82.6	84.6	86.1	87.0	—
29	78.5	78.3	77.7	77.1	76.7	76.4	76.3	78.1	82.2	84.6	84.8	85.4	—
30	76.2	75.6	75.4	75.0	74.7	74.5	74.6	77.0	80.5	84.0	85.6	88.0	—
31	76.2	75.9	75.9	75.7	75.4	75.4	76.2	78.7	81.6	83.5	85.0	87.5	—
Hourly Means.	76.83	76.48	76.15	75.80	75.43	75.19	75.63	77.59	80.21	82.21	83.76	84.59	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MARCH. 1	81.2	81.6	82.0	81.9	81.6	80.8	80.6	79.6	78.1	77.1	76.3	76.1	78.43
2	83.8	84.5	84.0	84.3	81.0	80.9	79.7	78.7	78.0	77.4	77.2	76.8	78.76
3	81.7	80.3	78.6	79.8	80.3	80.0	79.6	79.0	78.6	78.2	77.2	77.2	78.66
4	82.2	78.3	76.5	75.4	75.4	74.6	74.0	74.2	74.2	74.4	74.6	74.6	76.73
5	85.5	85.3	86.0	85.8	84.3	82.8	82.0	80.6	80.0	79.5	78.8	78.0	79.75
6	84.3	81.5	80.3	80.5	80.0	79.8	79.6	79.4	78.9	78.1	77.2	76.4	79.00
7	83.5	84.2	84.5	83.5	83.2	83.0	81.9	81.0	80.3	79.6	78.8	78.6	80.02
8	86.2	85.7	85.0	84.3	84.5	83.8	82.1	81.2	80.2	79.5	79.1	78.2	80.53
9	86.4	86.4	86.0	85.4	84.7	81.0	79.0	78.2	77.6	77.2	77.0	76.6	79.88
10	85.8	84.3	84.0	81.0	80.4	79.0	78.4	78.0	77.8	77.4	77.1	76.8	79.47
11	87.2	87.0	86.5	85.1	82.8	78.5	77.3	76.7	76.5	76.2	76.4	76.2	79.74
12	87.6	87.6	86.8	85.8	85.1	82.7	80.7	79.8	79.7	78.8	77.9	77.1	80.60
13	75.0	75.8	77.0	79.0	79.8	79.0	78.0	77.0	76.2	75.5	75.2	75.3	76.27
14	83.3	85.0	85.1	84.5	84.0	83.2	80.0	79.0	78.1	77.2	76.8	76.2	78.82
15	84.7	85.6	84.5	80.2	79.6	79.6	78.6	78.0	77.5	77.0	76.7	76.2	78.54
16	86.0	85.4	83.7	84.0	83.0	82.1	81.4	80.7	79.7	79.1	78.7	78.3	79.73
17	84.5	85.5	84.5	84.4	84.0	80.7	79.9	79.0	78.7	78.3	77.9	77.5	79.71
18	81.5	82.0	82.0	82.6	82.7	82.0	81.5	80.5	79.5	79.1	78.1	77.2	79.50
19	85.4	85.4	85.2	83.0	81.3	79.6	78.4	77.9	77.5	77.1	76.7	76.7	79.47
20	86.3	87.5	87.8	86.6	84.5	82.2	81.7	80.6	80.0	79.9	79.8	79.3	80.63
21	86.0	84.4	85.2	84.6	81.1	79.4	79.1	78.6	78.1	78.2	77.9	78.0	80.65
22	87.3	87.0	85.7	85.9	85.7	80.0	78.7	77.9	77.5	76.8	76.9	77.0	80.19
23	82.0	82.0	84.4	84.8	83.0	82.0	81.6	80.7	80.2	80.0	79.5	79.0	79.53
24	84.7	85.2	79.8	78.4	78.0	77.6	77.0	76.8	76.9	77.0	77.0	77.2	79.36
25	79.0	80.6	81.7	82.5	82.2	81.6	81.1	80.2	80.0	79.4	78.8	78.4	79.79
26	80.0	84.7	85.9	85.8	85.4	84.1	80.3	79.7	79.1	78.7	78.3	77.6	80.48
27	83.5	85.6	87.1	85.7	85.0	83.8	82.2	81.4	80.1	79.1	78.6	77.9	80.29
28	87.3	86.8	87.8	87.2	85.7	84.6	83.0	81.5	80.6	80.1	79.5	78.8	81.77
29	87.0	87.6	86.8	85.4	79.7	78.6	78.0	78.0	77.8	77.2	77.0	76.3	80.23
30	87.5	85.0	85.8	84.4	83.8	83.0	80.2	79.1	78.5	77.6	76.8	76.6	79.98
31	88.0	88.0	83.5	83.0	81.1	80.1	78.8	78.2	77.6	77.4	77.4	77.1	79.88
Hourly Means.	84.34	84.38	83.99	83.38	82.35	80.97	79.82	79.07	78.50	78.00	77.59	77.20	79.56

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	957	966	966	974	966	966	974	974	958	901	864	773	—
2	957	948	948	957	956	965	965	974	950	855	786	729	—
3	899	899	906	915	905	914	915	876	863	806	754	741	—
4	924	915	915	940	914	913	905	891	853	804	749	787	—
5	965	956	965	965	965	965	956	923	855	784	782	731	—
6	924	915	906	930	930	930	930	891	840	745	711	714	—
7	957	957	948	956	956	956	947	891	813	782	731	731	—
8	925	924	940	931	965	973	966	917	804	739	671	662	—
9	891	906	890	915	923	947	948	884	820	775	736	729	—
10	948	932	932	923	948	948	948	847	807	741	688	729	—
11	949	948	948	948	939	947	931	837	741	716	703	652	—
12	957	957	957	966	966	966	957	854	756	728	693	683	—
13	916	932	940	940	947	957	940	931	915	956	956	965	—
14	956	965	965	946	946	956	947	858	816	819	765	727	—
15	948	948	939	947	938	947	930	892	885	835	781	762	—
16	948	956	956	956	938	938	929	882	754	753	702	729	—
17	950	949	957	957	948	939	940	886	785	902	848	747	—
18	924	932	931	940	930	930	930	858	811	748	731	719	—
19	940	957	957	957	966	966	966	949	895	801	744	785	—
20	923	931	947	947	956	947	956	892	790	747	705	653	—
21	877	893	909	901	916	924	917	834	766	709	714	685	—
22	933	941	932	924	940	940	915	853	798	748	761	668	—
23	957	957	957	957	966	965	956	957	949	799	776	803	—
24	958	958	966	958	958	949	949	910	845	817	818	760	—
25	957	957	948	957	966	966	974	894	771	770	720	736	—
26	958	958	966	966	974	966	957	885	843	790	745	745	—
27	958	957	957	948	957	957	957	908	849	807	844	808	—
28	933	941	949	957	957	966	949	870	774	737	748	710	—
29	975	942	949	941	932	923	923	868	793	696	703	712	—
30	931	957	957	966	956	947	939	875	797	762	688	619	—
31	931	931	940	940	947	957	931	801	750	755	705	661	—
Hourly Means.	940	941	943	946	947	949	943	889	827	785	752	731	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	791	792	772	792	799	827	842	855	893	916	915	923	890
2	673	696	728	716	783	812	802	838	860	883	875	883	856
3	866	872	908	910	887	910	934	942	918	893	932	891	886
4	837	925	940	922	939	947	956	956	956	965	965	965	908
5	712	739	662	688	708	724	792	849	841	848	877	892	839
6	777	905	864	865	848	855	863	848	878	908	932	948	869
7	790	736	743	698	775	781	837	857	880	910	933	918	853
8	714	706	758	750	763	776	830	851	880	886	894	885	838
9	708	689	688	678	683	804	837	900	941	940	932	948	838
10	700	770	755	835	880	870	893	917	917	925	932	940	864
11	622	659	644	670	759	868	907	899	924	957	948	948	836
12	680	624	640	661	704	752	804	848	824	846	867	899	816
13	956	915	858	816	817	870	884	907	932	957	966	966	922
14	760	670	703	688	673	724	848	869	908	932	932	948	847
15	724	719	743	765	839	823	893	925	916	924	940	940	871
16	661	659	726	735	759	829	858	888	918	942	942	950	846
17	702	739	723	778	777	826	840	862	853	893	908	916	859
18	821	792	792	794	809	844	858	895	902	894	901	916	858
19	780	753	718	753	813	847	885	900	907	916	924	932	875
20	708	686	688	722	763	800	814	864	871	879	848	863	829
21	727	784	779	798	790	816	847	869	901	908	917	917	837
22	659	691	740	747	760	894	926	941	941	948	948	957	854
23	822	807	770	737	802	837	851	888	910	919	934	942	884
24	813	800	863	901	917	925	949	948	957	957	957	958	908
25	918	911	912	838	852	905	919	935	935	951	958	950	900
26	879	771	720	661	705	762	910	934	959	950	950	958	871
27	754	712	697	733	731	769	778	858	903	918	926	941	859
28	698	716	636	622	679	763	831	858	904	919	927	933	832
29	672	705	684	699	801	837	852	876	892	907	932	948	840
30	680	738	693	763	776	817	825	869	869	875	899	915	838
31	645	608	719	759	805	781	877	868	892	900	900	916	830
Hourly Means.	750	751	751	758	787	826	863	888	903	915	923	929	860

DIRECTION OF THE WIND.

MARCH.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	N	C	N	N	N	N	N	NW	NW
2	C	NNE	N	NW	NNW	C	C	C	NW	NW	NNW	NW
3	W	W	W	W	W	WSW	WSW	WSW	WSW	SW	W	NW
4	C	C	C	C	N	C	N	C	N	NW	NNW	NNE
5	C	W	W	C	C	C	C	W	WSW	W	W	NW
6	C	C	C	C	C	C	WSW	C	W	WNW	NW	NW
7	C	C	C	C	C	C	WNW	C	WNW	NW	NW	NW
8	C	C	C	C	C	C	NNW	NNW	W	SW	NW	NW
9	WSW	S	S	C	C	C	S	SW	SW	NW	N	N
10	C	C	C	C	S	C	S	S	S	E	ENE	N
11	C	C	C	C	C	C	SW	SW	SW	E	NE	ENE
12	C	C	C	SW	C	C	SW	SW	SSE	ENE	E	ESE
13	SSW	C	C	C	C	SSW	SSW	C	NW	N	NE	NE
14	NW	C	NW	NW	NW	NNW	NNW	NNW	SW	SW	WNW	NNW
15	C	C	W	W	C	C	W	C	WNW	WNW	NW	NNW
16	C	C	C	C	C	C	SE	SE	SSE	S	SE	N
17	C	N	N	N	N	N	N	C	NNE	N	NW	NNE
18	WNW	WNW	WNW	WNW	WNW	C	C	C	WNW	SE	NE	NE
19	NNW	NNW	C	C	NW	NW	NW	NW	ENE	SSW	WSW	N
20	C	C	SW	C	C	C	WSW	WSW	WSW	NNW	WSW	SW
21	C	WSW	WSW	WSW	WSW	C	C	WSW	E	ENE	ESE	ENE
22	C	C	SSW	SSW	C	C	SSW	SW	SW	SW	W	N
23	C	C	C	C	C	C	SW	C	SW	ESE	NE	NE
24	C	C	C	C	C	C	N	WSW	W	WSW	NNW	NE
25	WNW	C	C	C	C	C	WNW	WNW	ESE	E	E	NNE
26	C	C	C	C	C	NE	NE	ESE	E	E	E	E
27	C	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE	E	E	ENE
28	C	C	C	C	C	C	C	NE	E	NE	ENE	E
29	C	C	ENE	SE	SE	SE	SE	SSW	SSW	S	SSW	N
30	C	C	C	C	SSE	SSE	SSE	SSE	SSW	E	ENE	E
31	C	SW	C	C	C	C	SW	SW	SE	E	E	ESE

MARCH.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
1	NNW	NNW	NNW	NNW	N	N	N	NNW	NNW	NNW	NNW	NNE
2	NNW	NNW	NNW	NW	WSW	WSW	WSW	WSW	W	W	W	C
3	N	NNW	NW	NW	N	C	C	C	C	C	C	C
4	NNE	SW	SW	WSW	W	WSW	C	C	C	C	C	C
5	NW	NW	WNW	W	W	W	W	WSW	WSW	WSW	C	C
6	NNW	NNW	NNW	NW	NW	NW	NW	WNW	WNW	C	C	C
7	NNW	NNW	N	N	N	N	NNW	C	C	C	NNW	C
8	NE	NNE	N	N	NNW	NW	NW	NW	NW	NW	NW	NW
9	N	NNE	NNE	NNE	N	SSW	SSW	S	S	S	C	C
10	NNE	NE	NE	SSW	SW	SW	SW	SW	C	C	SW	SW
11	NE	NNE	N	N	WSW	SW	SW	SW	C	SW	C	SW
12	NNE	NE	NNE	N	NNW	W	SW	SW	SW	SSW	SSW	SSW
13	S	SSW	WSW	WSW	NW	C	NW	NW	C	NW	NW	C
14	N	NNW	NNW	NNW	NW	NW	W	C	C	W	C	C
15	NNW	NW	NNW	S	SE	SE	SE	SE	C	C	C	C
16	N	NNE	N	N	N	N	N	C	C	C	C	C
17	NNE	NNW	N	N	NW	SW	SW	SW	C	C	C	C
18	NE	NE	N	N	N	C	N	N	NNE	NNW	NNW	C
19	E	NNE	NNE	WNW	WSW	WSW	SW	C	C	C	C	C
20	NNE	NW	NW	NNE	NW	NW	W	C	C	W	WSW	WSW
21	NE	NE	NNE	WSW	SSW	SSW	SSW	C	C	C	C	C
22	N	NNE	NNW	N	NW	SW	SW	SW	C	SW	SW	SW
23	N	N	N	ENE	NNE	N	C	C	C	C	C	C
24	NE	NNE	N	NW	WNW	C	C	WNW	WNW	WNW	C	C
25	NE	ENE	NE	NE	NE	NE	NE	NE	NE	C	NE	C
26	SSE	ESE	ENE	NNE	ENE	SSE	C	C	SE	C	C	C
27	E	E	E	NE	NE	NE	NE	NE	C	NE	C	C
28	NE	E	NE	E	ENE	ENE	C	C	C	C	C	C
29	NNE	N	NNE	N	SW	SW	SE	SSE	SSE	SSE	C	C
30	NNE	ENE	ENE	NE	NE	ENE	SW	SW	SW	C	C	C
31	E	E	S	ESE	N	ENE	ENE	SE	S	S	C	S

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	0.0	0.0	2.4	0.0	0.8	0.8	1.6	3.2	2.4	4.8	11.3	—
2	0.0	1.6	3.2	4.0	1.6	0.0	0.0	0.0	4.8	9.7	14.5	12.1	—
3	0.8	1.6	3.2	0.8	3.2	1.6	0.8	4.0	4.8	4.0	6.4	5.6	—
4	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.0	2.4	3.2	6.4	8.0	—
5	0.0	1.6	1.6	0.0	0.0	0.0	0.0	3.2	4.8	6.4	4.0	8.0	—
6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	4.8	8.0	10.5	9.7	—
7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	5.6	8.0	12.1	11.3	—
8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.0	4.0	8.9	7.2	—
9	4.8	4.0	1.6	0.0	0.0	0.0	1.6	3.2	3.2	4.0	4.0	5.6	—
10	0.0	0.0	0.0	0.0	0.8	0.0	1.6	0.8	3.2	5.6	6.4	8.9	—
11	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.6	1.6	5.6	7.2	10.5	—
12	0.0	0.0	0.0	0.8	0.0	0.0	0.8	1.6	3.2	5.6	6.4	6.4	—
13	0.8	0.0	0.0	0.0	0.0	0.8	1.6	0.0	3.2	7.2	1.6	4.0	—
14	0.8	0.0	0.8	0.8	2.4	1.6	0.8	3.2	2.4	1.6	3.2	7.2	—
15	0.0	0.0	1.6	1.6	0.0	0.0	1.6	0.0	4.8	8.0	8.9	8.9	—
16	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	3.2	2.4	5.6	—
17	0.0	0.8	0.8	0.8	0.8	0.8	1.6	0.0	4.8	5.6	4.8	9.7	—
18	0.8	0.8	0.8	0.8	1.6	0.0	0.0	0.0	2.4	7.2	9.7	12.9	—
19	1.6	0.8	0.0	0.0	0.8	0.8	1.6	0.8	4.0	3.2	1.6	2.4	—
20	0.0	0.0	0.8	0.0	0.0	0.0	0.8	1.6	3.2	4.8	4.8	5.6	—
21	0.0	1.6	1.6	1.6	0.8	0.0	0.0	1.6	6.4	6.4	7.2	6.4	—
22	0.0	0.0	0.8	0.8	0.0	0.0	0.8	0.8	3.2	2.4	3.2	7.2	—
23	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.6	3.2	6.4	9.7	—
24	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.6	2.4	1.6	4.8	8.0	—
25	0.8	0.0	0.0	0.0	0.0	0.0	1.6	2.4	4.8	8.0	9.7	8.9	—
26	0.0	0.0	0.0	0.0	0.0	0.8	0.8	3.2	6.4	9.7	9.7	11.3	—
27	0.0	1.6	1.6	1.6	1.6	0.8	0.8	1.6	5.6	11.3	11.3	5.6	—
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	10.5	13.7	10.5	10.5	—
29	0.0	0.0	1.6	3.2	1.6	1.6	2.4	4.8	3.2	3.2	4.8	8.9	—
30	0.0	0.0	0.0	0.0	0.8	0.8	1.6	0.8	2.4	6.4	8.0	8.0	—
31	0.0	0.8	0.0	0.0	0.0	0.0	0.8	1.6	5.6	8.0	12.1	12.9	—
Hourly Means.	0.34	0.49	0.65	0.62	0.54	0.34	1.03	1.45	4.05	5.85	6.98	8.33	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	9.7	12.1	13.7	11.3	9.7	3.2	3.2	3.2	0.8	0.8	3.2	1.6	4.16
2	14.5	14.5	9.7	8.0	6.4	1.6	2.4	1.6	0.8	1.6	1.6	0.0	4.76
3	3.2	6.4	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.03
4	11.3	6.4	3.2	2.4	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.04
5	9.7	11.3	9.7	5.6	4.8	2.4	1.6	0.8	0.8	1.6	0.0	0.0	3.25
6	6.4	6.4	6.4	1.6	2.4	4.8	1.6	1.6	0.8	0.0	0.0	0.0	2.74
7	13.7	14.5	12.9	9.7	4.8	3.2	0.8	0.0	0.0	0.0	0.8	0.0	4.09
8	12.1	14.5	12.9	13.7	9.7	3.2	1.6	0.8	1.6	1.6	1.6	4.0	4.33
9	9.7	12.1	11.3	9.7	4.8	8.0	6.4	2.4	1.6	0.8	0.0	0.0	4.12
10	10.5	8.9	5.6	4.8	6.4	1.6	1.6	0.8	0.0	0.0	1.6	1.6	2.95
11	12.1	11.3	10.5	8.0	8.0	6.4	4.0	1.6	0.0	0.8	0.0	0.8	3.85
12	10.5	10.5	10.5	8.9	2.4	5.6	2.4	1.6	3.2	1.6	0.8	1.6	3.52
13	6.4	4.8	2.4	2.4	0.8	0.0	0.8	0.8	0.0	1.6	1.6	0.0	1.70
14	9.7	9.7	9.7	6.4	2.4	1.6	1.6	0.0	0.0	0.8	0.0	0.0	2.78
15	7.2	6.4	5.6	6.4	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	2.68
16	8.0	10.5	9.7	8.9	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	2.58
17	9.7	10.5	8.0	4.8	4.0	4.8	0.8	0.8	0.0	0.0	0.0	0.0	3.08
18	13.7	8.0	3.2	2.4	1.6	0.0	1.6	4.8	3.2	3.2	1.6	0.0	3.35
19	4.0	8.9	10.5	6.4	1.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	2.24
20	6.4	7.2	8.0	11.3	6.4	1.6	0.8	0.0	0.0	0.8	3.2	0.8	2.84
21	7.2	8.0	6.4	4.0	6.4	4.8	0.8	0.0	0.0	0.0	0.0	0.0	2.97
22	9.7	12.1	11.3	7.2	6.4	2.4	1.6	0.8	0.0	0.8	0.8	0.8	3.05
23	6.4	2.4	3.2	5.6	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.94
24	7.2	6.4	6.4	3.2	0.8	0.0	0.0	1.6	1.6	0.8	0.0	0.0	2.03
25	4.8	2.4	4.8	5.6	1.6	0.8	1.6	1.6	0.8	0.0	0.8	0.0	2.54
26	2.4	5.6	10.5	10.5	5.6	4.8	0.0	0.0	0.8	0.0	0.0	0.0	3.42
27	6.4	9.7	11.3	10.5	9.7	6.4	0.8	1.6	0.0	0.8	0.0	0.0	4.19
28	12.9	12.9	17.7	13.7	8.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	4.73
29	8.9	8.0	10.5	11.3	10.5	4.8	2.4	1.6	1.6	0.8	0.0	0.0	3.99
30	9.7	12.9	12.1	8.9	4.8	2.4	2.4	1.6	0.8	0.0	0.0	0.0	3.52
31	9.7	14.5	8.0	4.0	4.8	4.8	1.6	2.4	1.6	1.6	0.0	0.8	3.98
Hourly Means.	8.83	9.35	8.60	7.03	4.81	2.92	1.47	1.06	0.65	0.65	0.57	0.39	3.21

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH. 1	10	9	10	10	10	10	10	10	10	10	10	8	—
2	10	9	10	10	10	10	10	10	9	10	10	10	—
3	2	2	1	3	10	9	9	9	9	8	8	9	—
4	4	9	9	3	4	8	9	9	9	7	9	10	—
5	10	10	10	10	10	10	9	7	9	6	8	7	—
6	3	2	2	1	3	6	8	7	7	10	6	6	—
7	1	0	2	1	1	4	4	3	2	4	5	8	—
8	0	1	0	1	4	3	4	2	1	2	3	4	—
9	10	10	4	6	2	7	1	1	1	3	5	6	—
10	6	6	4	4	3	5	3	2	7	4	7	4	—
11	10	4	6	3	2	2	0	1	2	6	7	4	—
12	4	4	6	5	3	4	4	1	1	3	3	4	—
13	6	2	2	3	3	5	10	10	10	10	10	10	—
14	9	4	1	5	7	9	5	6	8	9	8	8	—
15	7	10	10	9	7	9	8	10	9	8	7	8	—
16	1	1	4	5	3	2	7	4	2	1	7	9	—
17	4	4	9	4	2	3	2	2	9	10	8	3	—
18	5	2	0	0	1	2	4	2	1	3	6	7	—
19	2	2	3	2	2	8	6	5	3	6	6	7	—
20	6	7	6	6	5	7	2	1	1	1	2	3	—
21	10	10	10	5	7	10	1	0	0	2	8	7	—
22	9	3	2	2	3	4	4	3	3	4	9	4	—
23	5	4	3	4	3	2	9	7	7	6	9	10	—
24	6	3	6	10	2	2	2	1	7	8	9	9	—
25	7	8	6	6	6	7	7	5	4	4	6	8	—
26	2	2	3	2	3	3	7	5	4	3	3	10	—
27	2	1	1	3	8	4	7	3	5	7	9	10	—
28	1	4	6	9	9	7	9	8	4	5	7	6	—
29	2	3	4	4	9	8	8	2	2	4	6	5	—
30	2	2	1	4	6	5	5	1	2	3	3	6	—
31	6	4	4	6	6	5	2	4	6	6	7	5	—
Hourly Means.	5.2	4.6	4.7	4.7	5.0	5.8	5.7	4.5	5.0	5.6	6.8	6.9	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MARCH. 1	10	10	9	9	7	8	10	10	8	7	9	10	9.3
2	8	6	6	5	4	4	9	8	7	9	7	3	8.1
3	10	10	10	10	10	8	9	10	9	7	7	4	7.6
4	10	10	10	10	10	10	10	10	10	10	10	10	8.8
5	9	4	2	7	7	6	9	8	9	9	7	4	7.8
6	10	10	9	10	10	9	8	5	4	3	2	1	5.9
7	10	6	5	3	10	2	2	4	2	3	1	1	3.5
8	4	2	3	5	7	6	6	7	8	9	10	10	4.3
9	3	2	3	4	8	9	10	10	10	10	10	10	6.0
10	9	7	9	9	10	10	9	9	6	6	9	8	6.5
11	1	1	3	8	10	10	10	10	10	10	5	5	5.4
12	1	0	0	0	2	6	3	9	6	5	3	7	3.5
13	10	10	9	5	5	6	7	6	7	8	9	9	7.2
14	5	3	3	5	7	9	7	3	1	1	0	5	5.3
15	6	8	6	10	10	4	8	9	8	7	4	3	7.7
16	7	6	7	8	8	7	6	4	4	4	3	2	4.7
17	6	6	4	6	8	10	9	9	7	6	7	7	6.0
18	10	10	9	10	10	9	10	10	10	10	7	7	6.0
19	6	7	7	9	10	8	9	10	9	9	5	4	6.0
20	4	4	1	2	9	8	5	2	2	3	7	8	4.3
21	7	8	7	10	9	7	8	6	6	5	8	8	6.6
22	6	3	9	6	10	10	10	4	6	2	8	7	5.5
23	10	10	4	4	9	10	7	9	9	6	4	6	6.5
24	8	9	10	9	9	8	9	10	10	9	9	9	7.3
25	10	9	10	10	10	10	4	5	3	3	2	2	6.3
26	7	7	4	7	6	9	7	6	6	4	3	2	4.8
27	7	6	4	6	4	4	3	2	1	1	2	2	4.3
28	10	10	6	6	7	5	3	3	4	6	6	4	6.0
29	8	7	5	6	9	10	10	10	9	5	4	3	6.0
30	7	7	7	7	8	9	9	7	6	4	3	3	4.9
31	5	4	7	9	10	10	10	8	7	7	7	2	6.1
Hourly Means.	7.2	6.5	6.1	6.9	8.2	7.8	7.6	7.2	6.6	6.1	5.7	5.4	6.08

DURATION OF SUNSHINE.

MARCH.

Mean Batavia Time.	8—8½ A M.	8½—9	9—9½	9½—10	10—10½	10½—11	11—11½	11½—12	12—12½ P. M.	12½—1	1—1½	1½—2	2—2½	2½—3	3—3½	3½—4	Daily and Monthly Means.
1	0	0	0	0	1	1	1	3	2	0	0	0	2	3	6	5	1.5
2	1	4	7	3	7	4	3	1	4	7	6	7	7	6	6	7	5.0
3	3	3	1	6	5	7	6	4	4	0	6	2	0	0	0	0	2.9
4	0	0	1	7	9	9	3	0	0	2	2	0	0	0	0	0	2.1
5	7	4	6	8	8	1	5	7	8	6	3	4	9	8	10	7	6.3
6	1	3	7	5	8	9	8	6	7	5	1	0	0	0	0	0	3.8
7	10	10	9	8	10	9	8	7	4	4	6	7	7	9	6	9	7.7
8	10	10	10	10	9	10	10	9	7	4	8	9	8	8	7	7	8.5
9	10	10	8	8	8	7	5	4	1	9	10	10	10	10	10	10	8.1
10	10	2	4	9	10	10	2	3	6	7	3	0	7	2	0	0	4.7
11	3	10	10	10	10	10	10	10	10	9	8	7	10	10	7	4	8.6
12	10	10	10	9	10	8	10	6	6	9	10	10	10	10	10	10	9.3
13	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	0.8
14	5	7	10	10	10	6	5	3	5	8	5	4	1	0	0	5	5.3
15	0	2	7	6	6	8	7	7	7	3	4	6	2	2	3	0	4.4
16	9	8	6	8	4	7	3	3	6	8	10	10	10	7	2	5	6.6
17	8	4	0	0	0	0	8	10	10	8	9	8	7	7	5	5	5.6
18	10	10	10	10	7	5	8	5	0	0	1	1	1	0	1	0	4.3
19	4	6	8	5	4	8	2	0	1	3	2	3	6	8	0	0	3.8
20	10	10	10	10	10	8	6	9	8	4	5	5	8	10	10	10	8.3
21	10	10	10	10	10	7	4	5	0	3	0	0	1	4	3	0	4.8
22	10	10	10	10	0	0	2	6	9	10	10	7	7	4	5	2	6.4
23	0	2	5	9	8	5	4	1	1	0	0	0	4	10	7	6	3.9
24	4	4	6	2	6	1	7	4	0	5	7	2	0	0	0	0	3.0
25	9	9	10	10	8	8	8	7	4	0	0	0	1	3	0	0	4.8
26	9	9	9	9	8	9	8	4	0	0	2	6	8	4	9	9	6.4
27	3	6	9	9	7	3	1	1	1	4	4	7	10	10	10	8	5.8
28	7	10	10	10	6	8	7	8	7	4	1	3	4	8	10	7	6.9
29	9	9	10	10	6	4	7	3	3	7	6	8	8	9	7	10	7.3
30	9	9	9	10	10	10	9	8	6	6	3	1	1	4	2	1	6.1
31	3	0	8	4	4	1	7	5	8	7	1	4	4	0	0	0	3.5
Means.	5.9	6.2	7.1	7.3	6.7	5.9	5.6	4.8	4.4	4.6	4.3	4.2	4.9	5.1	4.5	4.4	5.37

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

MARCH.

Mean Batavia Time.	7h30 A. M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	24.9	26.4	28.4	30.4	32.1	38.4	39.4	40.5	43.0	49.0	44.9	38.5	39.0	41.4	39.4	42.8	40.2	35.4	34.0
2	—	—	29.4	44.9	43.9	40.4	46.8	46.4	47.4	43.3	53.0	47.9	46.4	50.4	50.4	42.9	45.4	37.9	31.4
3	28.5	35.0	40.2	43.2	43.2	45.6	48.8	52.9	44.6	44.6	—	42.5	44.5	33.1	—	—	30.0	32.3	33.3
4	26.5	30.4	31.4	34.3	38.9	48.9	51.4	54.2	43.4	37.3	—	45.0	35.9	—	—	—	—	—	—
5	27.0	42.5	47.0	43.0	52.3	49.9	50.9	50.4	46.7	50.5	48.7	49.3	—	53.2	51.5	52.2	51.9	38.8	35.4
6	27.4	31.9	39.9	40.8	52.4	45.5	54.0	55.3	51.0	50.8	48.8	37.8	—	—	—	33.9	30.4	27.5	26.9
7	40.4	44.4	47.4	49.9	50.5	50.4	53.4	54.8	50.5	50.5	46.0	45.4	49.4	47.5	50.4	48.4	45.4	37.3	42.4
8	40.0	44.9	47.7	49.6	49.9	52.2	51.6	51.4	52.9	52.7	51.0	48.4	49.6	49.9	50.8	46.7	46.4	38.2	36.9
9	38.4	45.3	46.9	50.0	45.4	53.4	54.6	46.2	37.4	36.4	38.7	53.0	53.0	52.1	51.9	52.2	49.9	41.1	37.7
10	38.8	45.3	47.1	43.9	44.7	53.4	55.5	46.6	41.0	40.5	46.0	46.1	38.8	47.9	45.1	32.7	31.1	29.7	30.1
11	38.4	43.8	47.0	47.4	50.4	52.9	53.5	49.4	53.7	54.4	53.6	53.1	52.9	52.0	52.4	52.6	52.4	34.9	30.4
12	39.9	45.4	47.4	50.6	51.0	51.3	53.4	54.0	56.3	44.5	56.4	54.9	45.0	55.4	54.1	52.3	54.0	41.5	35.5
13	24.8	24.7	25.0	26.2	—	—	—	—	—	—	—	29.3	31.4	35.3	37.9	39.4	45.8	41.4	42.7
14	27.1	39.6	39.3	43.4	39.9	40.4	44.9	47.2	47.9	45.5	47.9	46.1	51.9	51.3	51.1	50.3	49.8	39.3	38.3
15	35.9	30.9	30.4	37.0	48.9	48.0	46.7	50.9	52.6	47.9	53.9	47.4	51.8	45.6	39.1	41.1	37.3	—	29.1
16	35.4	44.8	47.4	52.9	48.4	52.3	47.0	50.6	39.6	42.9	51.1	55.8	56.7	52.9	52.0	39.3	42.1	40.4	39.5
17	39.0	44.9	48.0	39.9	—	—	33.4	35.1	45.8	52.4	51.9	51.9	50.4	49.4	49.4	44.8	44.4	39.4	36.4
18	25.8	44.1	47.7	49.2	49.3	51.3	53.9	53.9	48.0	54.8	41.6	34.9	36.0	42.3	40.5	37.6	38.1	35.4	36.3
19	27.0	30.0	32.9	40.3	41.9	44.7	38.9	52.7	39.6	40.4	41.9	49.4	45.4	43.8	50.0	43.7	35.0	31.5	30.5
20	39.4	45.3	47.4	50.4	51.6	52.4	52.4	51.4	45.7	54.4	51.9	43.2	43.1	50.4	55.1	52.8	51.7	49.8	34.7
21	40.6	44.3	47.7	49.9	50.6	51.9	52.2	49.3	42.2	41.4	35.0	43.3	37.4	37.0	39.1	43.5	38.9	31.4	31.8
22	39.4	45.4	47.8	48.4	49.4	47.7	36.6	35.4	42.0	51.9	52.6	55.9	54.6	54.4	51.4	41.4	47.9	42.3	40.4
23	24.8	26.8	28.9	33.9	41.4	52.2	49.0	48.5	43.6	45.1	42.4	37.2	37.0	38.4	50.8	51.9	43.8	48.1	34.4
24	38.9	46.9	41.3	47.7	44.6	36.2	54.0	37.7	55.0	38.0	—	52.2	47.2	35.6	28.1	—	27.1	28.1	27.2
25	32.6	40.9	45.0	46.4	47.4	51.0	50.4	51.2	52.6	47.4	40.4	—	31.4	36.3	42.9	31.1	35.8	36.0	34.2
26	33.5	40.9	41.6	42.9	46.4	52.4	49.2	51.9	52.2	38.9	—	46.0	44.4	48.3	53.3	49.3	51.4	46.2	47.9
27	36.6	38.1	33.0	46.7	45.1	45.9	44.8	40.6	42.2	40.9	42.0	47.8	47.4	53.3	52.3	52.3	52.0	43.9	45.4
28	30.9	43.3	45.4	50.1	50.4	52.2	48.8	50.7	52.7	51.4	48.0	45.4	41.9	44.7	44.1	51.3	51.3	43.7	39.8
29	28.6	42.1	46.7	50.0	53.2	52.7	53.1	43.4	51.8	45.0	47.4	55.1	51.6	54.6	53.4	52.0	48.4	48.0	40.3
30	32.8	44.1	45.6	49.6	50.8	54.4	56.0	52.9	56.1	56.2	51.6	48.2	44.9	44.9	45.9	45.4	38.9	36.5	34.8
31	35.4	38.4	40.4	41.9	47.9	46.0	51.9	45.4	51.0	54.4	54.2	52.0	42.5	51.9	39.7	31.9	32.9	32.4	31.9
Means.	33.29	39.69	41.33	44.35	46.96	48.76	49.22	48.36	47.62	46.78	47.73	46.77	44.88	46.67	47.22	44.85	42.99	38.22	35.65

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

MARCH.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	N	5.6	9.1	5.6	P N	P N	12.1	14.2	14.2	5.6	3.5	2.0	—
2	P	2.5	P N	P N	P N	— 1.5	2.5	N	11.6	4.6	2.0	1.5	—
3	8.6	7.1	6.6	5.6	3.5	10.1	11.6	7.1	6.1	3.0	3.5	3.5	—
4	10.1	10.1	8.1	11.6	8.1	8.1	13.6	9.1	7.6	4.0	3.5	2.5	—
5	8.1	6.6	5.6	5.6	5.1	8.6	12.1	9.1	2.0	1.5	3.0	1.0	—
6	16.6	11.1	8.6	7.1	10.1	7.1	10.6	8.6	4.6	2.0	1.5	1.5	—
7	10.6	11.6	7.6	7.6	9.1	12.6	16.6	7.1	5.6	4.6	2.5	2.5	—
8	20.6	13.6	12.6	27.3	20.2	18.2	18.6	10.1	5.6	3.0	3.5	3.0	—
9	6.1	4.6	5.1	6.1	10.6	15.6	13.6	5.1	4.6	2.5	1.5	1.5	—
10	10.1	8.1	11.1	8.1	9.1	8.6	8.1	4.0	3.0	0.5	1.0	2.5	—
11	10.6	9.1	8.6	7.1	6.6	12.1	13.6	4.0	1.0	— 0.5	0.0	0.0	—
12	12.1	10.1	16.6	12.6	11.6	17.6	10.6	2.0	2.0	1.0	1.0	1.0	—
13	11.1	8.6	14.2	12.6	12.6	18.2	16.2	P N	P N	P N	P N	P N	—
14	15.2	13.6	13.2	17.2	18.2	1.5	14.6	10.1	5.1	6.1	3.0	2.5	—
15	15.2	16.6	16.2	10.1	12.1	26.8	17.2	8.6	6.1	3.5	3.0	2.5	—
16	14.6	14.2	20.2	10.6	10.6	14.6	14.2	7.6	5.1	2.5	2.5	— 1.0	—
17	15.6	12.1	13.2	6.1	5.6	5.1	6.6	7.1	6.6	— 7.6	7.1	2.5	—
18	8.6	7.6	7.1	8.1	8.6	9.1	11.1	8.6	6.1	3.5	3.0	10.1	—
19	5.6	6.1	8.1	8.1	6.6	10.1	11.6	12.1	6.6	3.0	1.5	2.5	—
20	7.1	7.1	4.6	4.0	7.6	7.6	6.6	11.1	5.1	3.0	3.0	2.5	—
21	8.6	12.6	6.1	5.1	6.1	13.2	10.1	7.1	4.0	2.0	2.0	— 3.5	—
22	11.1	10.6	15.2	10.1	11.1	18.6	13.2	7.1	5.6	2.0	1.5	1.5	—
23	17.6	13.2	11.1	15.2	16.6	18.2	30.4	12.6	15.2	1.5	4.0	3.0	—
24	19.2	19.2	12.1	9.1	7.6	8.1	14.2	7.1	4.0	3.0	— 7.6	6.1	—
25	9.1	8.1	10.1	11.1	14.6	17.2	19.2	10.1	3.5	2.5	2.0	— 2.5	—
26	11.1	10.1	14.6	12.6	11.1	9.6	11.6	4.6	3.0	0.5	2.0	— 4.0	—
27	11.1	11.1	8.6	6.6	8.6	10.1	13.6	8.6	6.1	4.6	2.5	3.0	—
28	15.2	20.2	18.2	16.6	10.1	12.1	15.2	9.6	3.0	2.5	2.0	1.5	—
29	9.1	8.6	7.1	6.1	5.1	5.1	5.1	4.6	2.5	0.0	— 0.5	— 0.5	—
30	7.6	5.1	4.0	3.5	4.0	5.6	7.6	7.1	6.6	4.0	3.0	3.5	—
31	8.1	9.1	7.1	8.6	5.1	7.6	9.6	7.1	4.0	2.0	2.0	0.5	—
Hourly Means.	11.5	10.1	10.4	9.5	9.5	11.2	12.6	8.0	5.5	2.3	2.1	1.8	—

MARCH.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	1.5	2.0	3.0	2.5	4.0	1.0	13.6	15.2	11.1	13.2	23.3	N	8.1
2	4.6	3.0	4.0	P N	P N	12.1	18.2	11.1	10.6	10.6	7.1	7.6	6.6
3	P N	P N	P N	13.2	5.6	8.1	15.2	17.2	15.2	13.6	15.2	12.6	9.2
4	3.0	P N	P N	P N	P N	P N	2.0	9.1	12.1	3.5	8.1	8.1	7.5
5	1.0	1.0	1.5	1.5	2.0	4.0	7.6	12.1	9.6	7.6	8.6	13.6	5.8
6	— 1.0	— 6.1	12.6	32.9	9.1	5.6	4.6	5.1	4.6	6.1	9.6	12.6	7.7
7	2.0	1.5	3.5	4.0	6.1	18.2	12.6	14.2	17.2	24.3	20.6	16.2	9.9
8	2.0	1.0	1.5	— 4.0	7.6	26.8	— 1.0	9.6	18.6	— 4.6	14.2	9.1	9.9
9	1.5	1.5	1.5	2.0	P N	P N	P N	P N	14.2	4.0	8.1	10.6	6.0
10	2.0	N	19.6	27.3	N	18.6	P N	7.1	9.1	9.1	8.6	7.6	8.7
11	0.0	0.5	2.5	P N	P N	P N	P N	P N	5.1	10.1	9.6	9.6	5.8
12	1.5	3.5	3.5	4.6	7.1	9.6	8.1	11.1	9.6	8.6	8.6	10.6	7.7
13	— 5.6	4.6	2.5	3.5	6.6	8.6	15.2	16.6	11.1	19.2	9.6	12.1	10.4
14	3.5	2.0	3.0	4.6	5.6	7.6	9.6	15.2	15.2	24.3	13.6	16.6	10.0
15	3.0	3.0	4.0	N	5.6	7.1	13.6	14.2	27.8	16.6	10.6	14.2	11.2
16	1.0	2.0	3.0	5.1	5.6	7.6	11.6	11.6	11.6	17.6	11.1	11.6	9.0
17	2.5	3.5	4.6	9.1	11.1	6.1	8.1	11.1	15.6	12.6	13.6	13.6	8.0
18	P N	— 3.5	3.0	3.0	3.5	8.1	6.6	— 10.1	2.5	— 15.2	2.5	4.6	4.2
19	— 4.0	2.5	3.5	P N	P N	P N	6.6	10.6	8.6	11.6	10.1	5.6	6.5
20	2.0	2.5	2.0	1.5	N	— 17.6	8.6	10.6	11.6	11.1	8.1	5.6	5.0
21	— 10.6	0.5	1.0	— 1.0	10.1	12.1	29.3	5.1	16.6	15.2	15.6	16.6	7.7
22	1.0	1.0	1.5	11.1	30.9	P N	P N	13.6	17.2	16.6	13.6	11.6	10.3
23	2.5	3.5	3.0	3.5	4.6	6.6	9.1	11.1	7.6	12.1	12.6	15.2	10.4
24	N	P N	P N	P N	10.1	7.1	6.1	11.6	13.6	7.1	12.1	9.6	9.0
25	N	6.6	N	3.0	5.1	6.1	11.6	8.6	9.6	8.6	12.1	13.6	8.6
26	N	2.0	3.5	4.0	13.2	0.5	P N	4.0	11.6	9.6	10.1	11.1	7.1
27	1.0	1.5	2.0	2.0	2.5	2.5	7.1	9.6	9.6	17.6	13.2	17.6	7.5
28	2.0	2.0	2.5	1.5	3.0	5.6	7.6	9.6	13.2	25.3	12.6	12.6	9.3
29	0.5	— 2.0	1.0	— 1.0	5.1	2.0	6.6	6.6	5.6	7.6	6.1	5.6	4.0
30	4.6	1.5	1.0	2.5	5.6	15.6	7.1	6.6	7.1	8.1	6.6	8.1	5.7
31	0.0	4.0	4.0	— 3.0	10.6	10.6	3.5	10.1	9.6	10.1	12.1	14.6	6.5
Hourly Means.	0.8	1.7	3.6	5.3	7.5	7.7	9.6	9.9	11.7	11.0	11.2	11.3	7.74

BAROMETERIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

APRIL. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	8.62	8.03	8.18	8.34	8.24	8.79	9.39	9.75	10.29	10.28	9.89	9.22	—
2	8.53	8.46	8.29	8.02	8.29	8.65	8.76	9.53	9.79	9.87	9.62	8.97	—
3	8.90	8.61	8.43	8.39	8.55	8.73	9.24	9.43	9.25	9.49	9.05	8.67	—
4	8.79	8.29	8.31	7.99	7.80	8.40	8.85	8.86	9.48	9.57	9.36	9.04	—
5	9.67	9.28	9.09	9.11	9.18	9.49	10.10	10.79	10.93	10.72	10.03	9.17	—
6	9.68	9.34	8.69	8.94	9.34	9.59	10.49	10.61	10.70	10.91	10.38	9.77	—
7	9.22	8.89	8.75	8.65	8.65	9.16	9.56	9.95	10.19	10.11	9.72	9.15	—
8	8.41	8.76	8.36	8.58	8.54	8.85	9.46	9.95	9.98	10.27	9.48	8.72	—
9	8.65	8.09	7.70	8.15	8.10	8.50	8.86	9.35	9.32	9.38	8.96	8.40	—
10	8.71	8.33	8.22	8.09	8.06	8.35	8.86	9.74	9.99	9.70	9.36	8.78	—
11	9.59	9.04	8.80	8.88	8.94	9.34	10.06	10.45	10.66	10.36	9.52	8.72	—
12	8.86	8.34	8.02	7.84	8.16	8.39	8.90	9.55	9.78	9.97	9.24	8.24	—
13	8.51	8.18	8.24	7.80	7.87	8.37	8.84	9.24	9.53	9.17	8.72	7.90	—
14	8.15	7.61	7.74	8.29	8.34	8.03	8.53	9.18	9.40	9.48	9.06	8.57	—
15	8.11	7.84	7.66	7.53	8.00	8.27	8.64	9.08	9.13	8.90	8.51	8.13	—
16	7.79	7.56	7.08	6.69	6.87	7.63	8.29	8.65	8.83	9.03	8.60	8.04	—
17	8.11	7.78	7.58	7.49	7.56	8.04	8.78	9.05	9.24	9.43	8.93	8.15	—
18	8.51	8.28	8.29	8.30	8.16	8.58	8.70	9.20	9.70	9.55	9.27	8.32	—
19	8.35	8.25	8.33	7.88	8.24	8.54	8.80	9.19	9.68	9.42	9.16	8.37	—
20	8.70	8.23	7.79	8.10	8.12	8.63	8.79	8.78	8.85	8.97	8.42	7.63	—
21	8.29	7.99	7.83	7.74	7.90	8.37	8.92	9.70	9.76	9.45	8.89	8.27	—
22	7.95	7.32	7.33	7.58	7.84	7.85	8.41	9.16	9.57	9.32	8.94	8.30	—
23	8.30	7.86	7.76	7.78	7.88	8.28	8.89	9.38	9.65	9.92	9.93	9.06	—
24	9.81	9.36	9.33	9.03	9.33	9.69	10.20	10.29	10.54	10.93	10.73	9.88	—
25	9.26	8.49	8.06	7.98	7.94	8.45	9.04	9.59	9.51	9.34	9.08	8.42	—
26	8.71	7.88	7.69	7.36	7.68	7.79	8.22	8.71	9.42	9.16	8.45	7.94	—
27	7.69	7.10	7.04	6.92	6.67	7.18	8.14	8.54	8.74	8.65	8.61	7.74	—
28	8.49	7.74	7.24	7.05	7.03	7.69	8.56	9.07	9.36	8.95	8.10	7.66	—
29	8.30	7.85	6.98	6.68	7.08	7.24	8.07	8.47	8.78	8.70	8.46	7.84	—
30	7.82	7.43	7.24	7.20	7.68	7.84	8.60	8.93	9.08	8.75	8.51	7.58	—
Hourly Means.	8.62	8.21	8.00	7.95	8.07	8.42	8.97	9.41	9.64	9.59	9.17	8.49	—

APRIL. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.40	7.96	7.36	7.33	7.42	7.83	8.36	8.69	9.34	9.30	9.18	8.95	8.71
2	8.51	7.46	6.82	6.61	6.92	7.44	7.93	8.54	9.21	9.70	9.62	9.76	8.55
3	7.85	7.08	6.60	6.60	7.44	8.33	8.51	9.05	9.40	9.60	9.63	9.35	8.59
4	8.32	7.49	6.95	6.77	7.89	8.45	9.02	9.59	9.98	10.39	10.15	9.95	8.74
5	8.62	7.90	7.38	7.65	8.40	8.49	8.88	9.48	10.04	10.50	10.56	9.93	9.39
6	8.90	8.23	7.43	8.20	8.51	9.17	9.56	10.18	10.38	10.41	10.14	9.77	9.56
7	8.41	7.73	7.29	7.35	7.49	7.83	8.18	8.59	8.94	9.25	9.28	9.50	8.83
8	8.31	7.31	6.93	7.37	7.91	8.71	9.03	9.25	9.43	9.49	9.34	9.22	8.82
9	8.00	7.42	7.15	6.97	7.51	8.04	8.48	8.79	9.03	9.57	9.39	8.93	8.45
10	7.72	7.40	7.27	7.03	8.19	9.16	9.73	10.25	10.20	10.46	10.34	10.17	8.92
11	8.33	7.77	7.11	7.07	7.37	8.26	9.09	10.13	10.52	10.54	9.78	9.63	9.17
12	7.56	6.53	6.32	6.42	6.91	7.51	8.37	8.58	9.04	9.37	9.30	8.98	8.34
13	7.38	6.72	6.20	5.93	6.38	7.46	7.96	8.56	8.70	9.18	9.73	8.97	8.15
14	7.80	7.19	6.75	6.67	7.10	7.68	8.26	8.73	8.97	8.82	8.70	8.69	8.24
15	7.37	6.62	6.25	6.17	6.67	6.82	6.93	7.69	8.38	8.70	8.93	8.21	7.86
16	7.47	6.96	6.01	5.96	6.46	6.76	7.02	7.32	8.22	8.30	8.58	8.65	7.62
17	7.50	6.72	6.25	6.23	6.62	7.23	7.42	7.95	8.76	9.40	9.33	8.95	8.02
18	7.57	6.90	6.26	6.48	7.13	7.42	8.46	8.91	9.14	9.42	9.69	9.16	8.39
19	7.83	7.19	6.94	6.63	7.21	7.51	8.36	8.54	9.26	9.19	9.18	9.06	8.38
20	6.91	6.62	6.16	6.85	7.33	7.64	7.82	8.16	8.64	8.66	8.98	8.74	8.06
21	7.43	6.47	5.97	5.90	6.17	6.41	7.34	7.73	8.01	8.43	8.59	8.47	7.92
22	7.70	7.27	6.74	6.42	6.86	7.36	7.98	8.78	9.43	9.51	9.30	8.72	8.15
23	8.18	7.72	7.13	7.15	8.10	8.82	9.88	10.13	10.56	10.69	10.57	10.28	8.91
24	8.88	8.31	7.87	8.01	8.41	9.11	9.39	9.88	10.07	10.22	9.95	9.39	9.53
25	7.24	6.95	6.22	6.50	6.75	7.39	8.35	9.07	9.39	9.37	9.54	9.38	8.39
26	7.54	6.92	6.36	6.92	7.25	7.58	8.02	8.59	8.80	8.99	8.95	8.48	8.06
27	7.35	6.64	6.35	6.37	6.69	7.33	8.08	8.71	8.82	8.91	8.94	8.88	7.75
28	7.22	6.60	6.17	6.02	6.57	7.09	7.85	8.48	9.08	9.34	9.37	8.78	7.90
29	7.18	6.37	5.97	6.58	6.91	7.45	8.25	8.37	8.96	9.09	8.96	8.49	7.79
30	6.88	6.26	5.67	5.63	5.81	6.22	6.74	7.87	8.23	8.50	8.52	8.20	7.55
Hourly Means	7.81	7.16	6.66	6.73	7.21	7.75	8.31	8.82	9.23	9.44	9.42	9.12	8.43

STANDARD THERMOMETER.

APRIL.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	77.0	77.0	76.8	76.7	76.5	76.3	76.4	77.7	81.7	84.0	85.0	87.2	—
2	78.0	77.4	76.9	76.5	76.0	75.6	76.6	80.4	83.6	85.6	86.5	85.4	—
3	77.3	77.0	77.1	76.8	76.2	76.0	76.4	79.0	82.0	83.8	85.3	85.8	—
4	76.3	75.9	75.6	75.4	75.4	75.2	75.9	79.0	82.2	84.1	86.1	86.9	—
5	76.8	76.4	76.2	75.9	75.2	75.2	76.0	78.3	80.8	83.1	85.6	87.5	—
6	77.3	77.6	77.7	77.6	77.2	77.2	78.0	80.2	82.6	84.6	86.8	86.0	—
7	76.6	76.2	76.2	75.8	75.6	75.4	75.8	77.2	80.4	83.6	85.2	86.2	—
8	79.4	79.1	78.8	78.2	78.0	77.6	78.0	79.6	83.0	84.4	86.0	84.1	—
9	75.6	75.5	75.1	74.9	74.7	74.5	75.0	77.9	81.5	84.1	84.3	84.7	—
10	77.2	76.8	76.2	75.9	75.5	75.1	75.6	77.9	81.1	84.2	86.0	87.9	—
11	75.5	75.6	75.4	75.2	74.9	74.7	74.9	76.3	79.1	82.7	85.3	86.4	—
12	76.8	76.3	76.1	75.7	75.3	75.0	75.8	78.2	81.2	84.0	86.0	87.6	—
13	77.0	76.9	76.6	76.1	75.9	75.7	76.1	77.6	80.4	83.2	85.4	87.3	—
14	78.2	77.1	76.4	76.4	76.4	76.2	76.5	77.4	78.1	79.6	82.3	83.2	—
15	78.3	77.8	77.4	77.0	77.0	76.8	76.8	77.7	80.5	82.5	84.8	83.7	—
16	78.4	77.7	77.2	76.6	76.4	76.1	76.8	80.0	83.0	84.9	85.3	86.2	—
17	78.2	78.0	77.7	77.0	76.3	75.7	76.4	79.0	82.5	85.3	87.4	88.6	—
18	77.4	77.0	77.0	76.8	76.6	76.1	76.3	78.1	81.7	83.3	86.0	88.3	—
19	77.4	77.2	77.0	77.2	77.4	76.8	77.1	78.4	81.1	84.1	85.6	88.0	—
20	77.0	77.0	76.6	76.4	76.4	76.1	76.7	78.2	80.3	82.1	84.2	85.7	—
21	77.1	77.2	77.0	76.7	76.6	76.5	76.9	78.5	80.4	82.3	84.0	85.7	—
22	79.8	79.2	79.5	79.3	78.9	78.5	79.0	80.3	81.9	81.8	84.4	85.1	—
23	77.9	77.8	77.8	77.8	77.8	77.9	78.3	81.0	83.6	85.2	86.7	88.4	—
24	77.0	77.1	77.4	77.1	77.0	77.0	77.0	78.3	80.9	82.0	83.0	85.2	—
25	78.6	77.9	77.5	77.1	76.8	76.4	77.1	80.3	83.2	85.6	87.3	88.1	—
26	77.4	77.1	77.0	76.7	76.6	76.4	77.6	81.0	84.4	86.3	87.4	87.1	—
27	77.3	77.1	76.7	76.3	76.1	76.0	76.4	77.1	77.0	79.6	83.8	85.0	—
28	77.0	76.9	76.6	76.2	75.8	75.6	76.0	77.7	79.7	81.8	83.2	85.3	—
29	79.1	78.9	78.6	77.6	77.7	77.5	77.4	77.9	79.9	83.0	85.0	86.0	—
30	76.8	76.3	76.1	75.9	75.5	75.3	75.6	77.3	81.1	83.6	85.2	86.3	—
Hourly Means.	77.46	77.17	76.94	76.62	76.39	76.15	76.61	78.58	81.30	83.48	85.30	86.30	—

APRIL.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	85.6	82.7	84.3	84.1	83.1	82.8	81.9	81.0	80.3	80.0	79.2	78.6	80.66
2	82.4	84.6	85.4	84.9	84.2	83.1	82.2	81.3	80.2	79.3	78.2	77.7	80.92
3	87.1	87.3	87.0	86.4	83.8	81.0	79.4	77.9	77.5	77.3	77.0	76.4	80.45
4	87.3	88.0	87.8	87.0	82.8	78.0	76.8	76.4	76.6	77.0	77.1	77.0	79.98
5	89.1	89.2	90.3	85.0	79.0	78.2	78.0	78.0	78.2	78.2	78.0	77.8	80.25
6	87.7	86.6	87.3	85.5	82.1	80.2	79.2	78.0	77.8	77.6	77.4	77.1	80.80
7	87.6	85.0	83.9	82.9	83.1	82.3	81.7	81.1	80.6	80.1	79.6	79.6	80.49
8	85.1	84.5	84.7	85.2	81.4	78.4	76.8	76.6	76.6	76.2	76.2	76.0	80.16
9	85.4	86.8	84.6	84.3	84.0	83.3	82.4	80.6	80.0	79.8	78.6	78.0	80.23
10	87.5	88.0	87.0	86.8	86.0	82.3	79.1	78.0	77.0	76.2	76.0	75.6	80.37
11	87.6	87.0	86.1	85.7	84.7	84.0	82.8	82.0	79.4	78.3	77.9	77.3	80.37
12	88.4	88.2	87.1	86.4	84.6	82.0	80.2	79.5	79.4	78.6	78.0	77.8	80.76
13	88.4	88.0	87.0	86.1	85.5	84.0	82.9	82.1	81.0	80.7	79.5	78.3	81.32
14	84.1	85.3	85.5	85.3	84.1	83.2	82.8	82.0	81.0	80.0	79.0	78.7	80.37
15	84.9	85.2	85.5	85.2	84.2	83.1	81.8	81.1	80.3	79.6	79.1	78.7	80.79
16	85.8	86.1	85.7	85.7	85.1	83.5	82.0	81.0	80.1	79.4	79.0	78.8	81.28
17	89.6	88.8	87.8	86.8	85.8	83.8	80.5	79.6	79.0	78.5	78.0	77.6	81.58
18	88.4	88.1	87.6	86.7	83.7	81.7	80.5	78.8	78.7	78.1	77.9	77.5	80.93
19	88.2	85.7	86.4	86.1	85.1	84.4	84.0	81.3	79.2	78.5	78.2	77.5	81.33
20	86.1	86.5	86.0	84.4	80.4	78.7	78.2	77.8	77.6	77.3	77.1	77.1	79.75
21	85.5	86.5	87.0	85.1	84.8	83.9	82.9	82.2	81.9	81.5	81.0	80.1	81.39
22	86.1	86.0	85.8	85.5	84.7	83.7	82.7	80.7	79.6	79.1	78.4	78.2	81.59
23	88.8	88.4	88.0	87.4	84.8	83.8	81.3	79.0	79.0	78.6	77.8	77.4	81.85
24	85.7	86.7	86.9	85.9	84.8	83.6	82.9	82.1	81.3	80.4	79.6	79.0	81.16
25	89.9	90.0	89.0	86.8	86.7	85.8	84.6	83.7	80.7	79.3	78.3	77.6	82.43
26	82.0	83.0	83.7	81.7	79.8	79.8	79.3	79.0	78.6	78.4	78.0	77.8	80.25
27	83.5	85.3	84.6	83.2	83.3	82.3	80.2	79.1	78.0	77.5	77.3	76.9	79.57
28	86.2	86.6	86.5	85.6	83.4	82.6	81.6	81.4	80.6	80.1	79.7	79.5	80.65
29	83.3	87.4	86.3	85.2	84.7	82.8	78.8	78.0	77.6	77.4	77.3	77.0	80.60
30	87.3	87.5	87.2	86.6	86.0	84.3	82.7	81.6	81.0	80.8	80.2	79.4	81.23
Hourly Means.	86.49	86.63	86.40	85.45	83.86	82.35	81.01	80.03	79.29	78.79	78.29	77.87	80.78

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	907	900	907	924	940	923	899	884	742	756	711	667	—
	2	933	941	949	957	957	966	932	812	721	688	696	732	—
	3	932	949	941	940	948	948	948	886	800	694	712	707	—
	4	915	923	931	930	939	947	906	839	780	729	714	665	—
	5	966	966	966	974	983	974	890	862	865	776	713	687	—
	6	949	949	950	958	932	932	933	864	794	771	691	714	—
	7	948	957	957	957	966	957	948	932	849	769	745	714	—
	8	943	959	967	966	966	966	958	910	803	723	707	826	—
	9	948	948	947	947	956	956	947	917	844	784	778	779	—
	10	958	948	948	957	957	956	867	908	814	743	708	650	—
	11	948	940	939	939	947	939	930	915	855	767	719	690	—
	12	916	923	923	931	947	956	923	885	784	728	700	667	—
	13	932	940	957	957	957	966	957	892	835	740	726	648	—
	14	933	942	948	948	957	957	966	941	926	887	823	775	—
	15	933	933	932	940	949	966	957	958	880	873	758	790	—
	16	933	941	949	948	948	948	924	871	767	697	739	714	—
	17	950	950	958	949	940	940	923	886	802	699	686	672	—
	18	916	924	916	924	924	923	915	861	815	796	694	639	—
	19	932	941	941	941	941	957	958	901	821	757	720	657	—
	20	949	949	957	966	957	966	957	926	865	794	737	700	—
	21	949	949	958	957	948	957	949	918	864	823	804	733	—
	22	934	942	926	926	926	942	934	903	852	912	798	779	—
	23	917	925	925	933	933	933	918	858	741	704	658	627	—
	24	949	941	941	941	949	949	958	933	888	852	810	753	—
	25	918	925	932	941	940	940	932	819	761	733	679	676	—
	26	916	924	932	940	948	948	933	843	778	721	718	751	—
	27	966	958	966	957	957	957	940	916	932	871	797	752	—
	28	924	932	940	940	940	948	948	917	879	822	775	705	—
	29	951	942	950	958	958	958	958	950	919	833	766	755	—
	30	957	966	966	966	966	966	957	925	806	762	705	677	—
Hourly Means.		937	941	944	947	949	951	936	894	826	773	733	710	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	739	794	763	763	803	839	912	896	927	935	926	933	850
	2	867	716	753	764	791	810	845	889	910	870	853	917	845
	3	704	698	678	683	740	826	870	876	883	891	916	923	837
	4	692	675	656	685	759	925	916	948	957	957	966	974	847
	5	637	618	617	799	830	901	917	933	942	950	925	941	860
	6	626	671	654	753	808	841	886	917	917	933	932	941	847
	7	680	738	777	883	876	897	905	927	951	959	943	943	882
	8	745	763	764	725	791	845	906	924	940	948	948	948	873
	9	726	743	827	826	819	839	890	943	951	951	950	958	882
	10	693	712	730	730	734	808	878	844	899	923	931	939	843
	11	680	711	748	747	764	791	846	829	878	893	892	907	842
	12	676	663	685	721	771	800	834	870	878	901	892	900	828
	13	659	676	659	689	740	805	861	866	888	895	918	942	838
	14	770	686	693	699	783	817	838	874	904	918	918	926	868
	15	779	765	733	745	770	795	844	888	903	927	934	926	870
	16	740	714	719	733	725	790	844	880	903	934	933	933	843
	17	650	677	706	702	739	768	826	863	885	908	917	925	830
	18	683	689	706	730	776	858	872	908	918	933	933	941	841
	19	663	733	721	748	785	812	833	843	918	958	958	949	850
	20	741	742	761	770	856	885	901	908	925	932	941	941	876
	21	780	742	717	779	779	790	831	852	874	896	904	927	862
	22	735	714	734	733	778	825	853	896	910	886	918	926	862
	23	635	652	682	698	827	833	843	918	933	933	950	949	830
	24	681	677	665	674	757	803	824	852	865	895	918	918	850
	25	627	639	672	736	762	787	805	840	842	886	908	925	818
	26	837	876	811	821	910	927	951	959	958	926	966	958	886
	27	854	745	778	825	839	882	919	918	917	916	924	916	892
	28	741	722	735	753	795	831	889	904	927	935	943	951	867
	29	802	699	735	779	798	816	893	941	958	958	949	957	883
	30	680	661	654	677	720	819	845	881	919	903	919	926	843
Hourly Means.		717	710	718	746	788	832	869	893	913	922	928	935	855

DIRECTION OF THE WIND.

APRIL.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	S	S	S	C	C	SSE	S	S	SE	SE	ENE	E
2	C	C	NNE	C	NNE	NNE	NNE	SE	E	E	E	NE
3	C	C	C	C	C	C	NNE	NNE	N	NNW	N	N
4	C	SSE	SSE	SSE	SSE	SSE	S	SSW	SSW	SSW	SW	NW
5	C	C	C	C	C	C	C	C	SW	SW	SW	WNW
6	C	C	C	C	S	C	C	S	W	SE	NE	NE
7	C	C	C	SSW	C	SSW	SSW	SSW	SSW	ESE	E	E
8	C	C	C	C	C	E	ESE	SSE	E	NE	E	NNE
9	C	C	S	S	S	S	S	S	S	E	E	E
10	E	C	C	C	C	C	E	SSE	S	E	ENE	E
11	S	S	S	S	C	C	S	S	S	SW	W	W
12	C	C	C	C	C	C	SW	SW	NW	N	WNW	WNW
13	C	C	C	SW	SW	SW	SW	SW	SW	NW	W	NW
14	NNW	NNW	NNW	N	C	C	C	N	ENE	E	E	NE
15	NE	NE	NE	NE	N	NNE	NNE	NNE	NE	NW	NNE	W
16	C	NE	NE	ESE	ESE	ESE	ESE	ESE	ESE	ENE	E	NE
17	C	C	C	C	C	NW	NW	W	S	SE	SE	E
18	C	S	C	C	S	S	C	S	E	E	E	E
19	C	C	SSE	SSE	C	C	C	S	S	NW	NW	NE
20	W	C	W	C	C	C	C	C	SW	SW	NE	N
21	C	SSW	SSW	C	C	SSW	SSW	S	NW	W	W	NW
22	NW	NW	NNE	NE	ENE	ENE	ENE	SE	E	NNW	N	NW
23	S	S	S	S	S	C	S	SSE	E	NE	E	ENE
24	C	WNW	WNW	WNW	NNE	NNE	ENE	E	E	E	E	ESE
25	E	E	E	ESE	ESE	C	C	E	ESE	ESE	ESE	E
26	SW	C	C	SW	C	SW	SW	ESE	E	E	E	NE
27	C	C	SE	SE	SE	C	SE	ESE	ESE	ESE	E	E
28	C	C	C	C	C	C	C	SSW	SSW	SSW	SSW	SSW
29	C	C	C	C	C	C	C	NW	WNW	SE	SE	ENE
30	C	C	C	C	C	C	SSW	C	SSW	ESE	ENE	ENE

APRIL.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NE	NNE	NE	NE	NE	C	C	C	C	C	C	C
2	SSE	NE	NE	NE	NE	NE	NE	C	NE	S	SSW	W
3	NNE	NNE	NNE	NE	S	SW	S	S	SSE	SSE	SSE	SSE
4	NNE	NE	NNE	NE	SW	SW	SSW	SW	SW	C	C	C
5	SW	NNW	NNE	NW	S	W	C	W	C	W	S	C
6	NNE	NE	NNE	W	WNW	SW	S	S	SSW	SSW	SSW	C
7	E	NE	ENE	E	E	E	C	C	C	C	E	E
8	NE	NE	NNE	N	WNW	SSE	S	S	S	S	C	C
9	E	ENE	E	E	NE	ENE	E	C	C	C	C	C
10	NNE	NNE	NE	ENE	N	SW	WSW	SE	S	S	S	S
11	NW	NNE	N	N	NNE	N	C	SW	SW	SW	SW	SW
12	NNW	NNE	NNE	NNW	W	SW	SW	SW	C	SW	SW	C
13	NNW	N	N	NNW	NNW	C	C	NW	C	C	NNW	C
14	NE	NE	NNE	NE	NE	NE	NE	NE	C	NE	NE	C
15	N	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	C
16	NNE	N	N	NNW	NW	NW	NW	C	C	C	C	C
17	E	N	NNE	NNE	N	SW	S	S	S	S	C	S
18	NE	NNE	NE	NNE	NW	WSW	S	SSE	SSE	SSE	SSE	C
19	NE	NNE	NNE	NNE	N	N	N	SW	W	W	W	W
20	NNE	NNE	NNE	NNW	WSW	SSW	SSW	SSW	C	C	SSW	C
21	NNE	NNW	N	N	N	NNW	NW	NW	C	C	C	NW
22	NE	NNE	N	NE	NE	NE	NE	SSW	SSW	SSW	S	S
23	NE	NNE	NE	NE	NNE	NW	WNW	NNW	C	NNW	NNW	WNW
24	ESE	E	E	ENE	E	ESE	ESE	E	C	C	C	C
25	ENE	ENE	E	NE	NE	ENE	E	ESE	SSW	SW	SW	SW
26	S	NE	NE	ESE	E	C	E	C	C	C	C	C
27	E	ENE	NE	N	NE	NE	S	SSW	SSW	SSW	SSW	SSW
28	SSW	W	N	N	NW	C	NW	C	NW	NW	C	C
29	NE	NNE	NNE	N	N	SW	SW	SSW	SSW	SSW	SSW	SSW
30	ENE	NE	NE	NE	NNE	C	C	C	C	C	NNE	NNE

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	1.6	0.8	0.8	0.0	0.0	1.6	3.2	1.6	6.4	6.4	9.7	9.7	—
2	0.0	0.0	0.8	0.0	0.8	1.6	1.6	4.8	8.0	9.7	8.9	6.4	—
3	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.4	3.2	4.0	4.0	5.6	—
4	0.0	1.6	1.6	0.8	0.8	3.2	4.0	4.0	3.2	3.2	3.2	4.8	—
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	4.0	4.8	
6	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.8	2.4	4.0	4.8	7.2	—
7	0.0	0.0	0.0	0.8	0.0	0.8	1.6	1.6	5.6	6.4	8.0	10.5	—
8	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	6.4	8.0	6.4	12.9	—
9	0.0	0.0	0.8	1.6	1.6	1.6	1.6	0.8	4.8	8.9	8.9	8.0	—
10	0.8	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	4.8	8.0	8.0	—
11	1.6	0.8	0.8	0.8	0.0	0.0	1.6	1.6	3.2	3.2	4.8	4.0	—
12	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.0	4.0	4.0	5.6	—
13	0.0	0.0	0.0	0.8	2.4	0.8	0.8	1.6	4.8	7.2	6.4	7.2	
14	0.8	1.6	1.6	2.4	0.0	0.0	0.0	2.4	5.6	4.8	2.4	2.4	—
15	0.8	0.8	0.8	0.8	2.4	0.8	0.8	1.6	2.4	3.2	8.0	4.8	—
16	0.0	0.8	1.6	3.2	2.4	1.6	1.6	2.4	4.8	8.0	9.7	9.7	—
17	0.0	0.0	0.0	0.0	0.0	1.6	3.2	2.4	3.2	4.8	5.6	8.0	—
18	0.0	1.6	0.0	0.0	0.8	0.8	0.0	2.4	1.6	3.2	6.4	6.4	—
19	0.0	0.0	1.6	0.8	0.0	0.0	0.0	1.6	0.8	3.2	4.8	8.9	—
20	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	1.6	3.2	8.0	8.0	—
21	0.0	0.8	0.8	0.0	0.0	0.8	1.6	1.6	4.0	3.2	4.0	4.8	—
22	0.8	0.8	3.2	3.2	1.6	0.8	2.4	1.6	4.0	4.0	3.2	2.4	—
23	2.4	1.6	1.6	1.6	0.8	0.0	2.4	3.2	8.9	10.5	12.9	9.7	—
24	0.0	1.6	3.2	2.4	3.2	1.6	3.2	3.2	8.0	8.0	12.1	12.9	
25	0.8	0.8	2.4	1.6	1.6	0.0	0.0	6.4	10.5	10.5	10.5	12.9	—
26	0.8	0.0	0.0	0.8	0.0	1.6	2.4	8.9	13.7	12.9	14.5	14.5	—
27	0.0	0.0	0.8	1.6	0.8	0.0	4.0	4.8	0.8	4.8	10.5	11.3	—
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	2.4	2.4	2.4	—
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	4.8	4.8	6.4	—
30	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	4.0	5.6	4.0	—
Hourly Means.	0.37	0.45	0.77	0.77	0.69	0.69	1.44	2.30	4.57	5.59	6.88	7.47	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL. 1	12.1	6.4	8.0	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.25
2	1.6	3.2	4.8	1.6	3.2	1.6	0.8	0.0	2.4	4.8	2.4	1.6	2.94
3	11.3	11.3	9.7	10.5	6.4	5.6	6.4	3.2	1.6	0.8	0.8	1.6	3.75
4	8.0	12.1	10.5	9.7	8.0	4.8	2.4	1.6	0.8	0.0	0.0	0.0	3.68
5	4.0	3.2	8.0	6.4	9.7	1.6	0.0	1.6	0.0	1.6	1.6	0.0	2.14
6	9.7	10.5	10.5	5.6	4.0	7.2	3.2	1.6	1.6	0.8	0.8	0.0	3.18
7	11.3	12.9	11.3	4.0	2.4	0.8	0.0	0.0	0.0	0.0	0.8	0.8	3.32
8	12.9	8.9	9.7	8.0	6.4	12.9	3.2	1.6	0.8	0.8	0.0	0.0	4.32
9	7.2	9.7	6.4	7.2	3.2	0.8	1.6	0.0	0.0	0.0	0.0	0.0	3.11
10	9.7	10.5	11.3	7.2	4.0	6.4	10.5	8.0	3.2	0.8	1.6	1.6	4.28
11	4.8	8.0	8.0	5.6	3.2	0.8	0.0	3.2	6.4	3.2	0.8	0.8	2.80
12	10.5	13.7	13.7	10.5	5.6	3.2	2.4	1.6	0.0	0.8	0.8	0.0	3.45
13	8.9	11.3	8.9	7.2	1.6	0.0	0.0	0.8	0.0	0.0	0.8	0.0	2.98
14	6.4	11.3	12.9	11.3	8.0	4.8	0.8	0.8	0.0	1.6	1.6	0.0	3.48
15	8.0	12.1	9.7	8.9	4.8	2.4	0.8	0.8	0.8	0.8	0.8	0.0	3.21
16	9.7	9.7	8.0	8.0	7.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	3.78
17	11.3	9.7	14.5	11.3	4.8	6.4	5.6	2.4	1.6	0.8	0.0	0.8	4.08
18	10.5	8.0	12.9	7.2	8.0	4.8	4.8	1.6	0.8	0.8	1.6	0.0	3.51
19	12.9	8.9	9.7	9.7	5.6	0.8	1.6	4.8	6.4	1.6	2.4	1.6	3.65
20	10.5	11.3	12.9	8.0	4.8	8.0	3.2	0.8	0.0	0.0	0.8	0.0	3.45
21	8.0	5.6	8.0	8.0	6.4	3.2	0.8	0.8	0.0	0.0	0.0	0.8	2.63
22	6.4	10.5	8.0	7.2	3.2	0.8	1.6	4.8	2.4	3.2	2.4	2.4	3.37
23	9.7	15.3	16.1	11.3	8.0	3.2	2.4	0.8	0.0	0.8	2.4	1.6	5.30
24	11.3	13.7	15.3	14.5	9.7	6.4	3.2	1.6	0.0	0.0	0.0	0.0	5.63
25	13.7	16.1	14.5	9.7	9.7	4.0	3.2	5.6	2.4	1.6	0.8	0.8	5.84
26	8.9	10.5	11.3	11.3	0.8	0.0	1.6	0.0	0.0	0.0	0.0	0.0	4.77
27	9.7	11.3	9.7	6.4	3.2	1.6	5.6	4.8	4.8	1.6	1.6	0.8	4.19
28	1.6	2.4	3.2	4.8	0.8	0.0	0.8	0.0	0.8	0.8	0.0	0.0	1.10
29	5.6	8.0	11.3	8.0	3.2	9.7	9.7	2.4	4.8	1.6	0.8	0.8	3.68
30	6.4	8.0	8.0	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.8	0.8	2.10
Hourly Means.	8.75	9.80	10.23	8.06	5.08	3.45	2.57	1.84	1.39	0.96	0.88	0.56	3.57

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

APRIL. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	4	8	10	10	10	10	10	9	9	6	8	—
2	3	3	4	2	3	3	7	3	4	5	8	10	—
3	6	4	9	3	3	7	2	1	0	8	8	6	—
4	10	7	6	5	4	4	2	1	2	3	5	3	—
5	3	2	2	1	1	2	1	0	0	0	0	5	—
6	2	9	3	8	9	9	9	3	2	10	5	8	—
7	2	1	1	2	3	5	9	10	9	8	8	7	—
8	4	9	2	4	1	2	2	1	1	2	5	7	—
9	3	2	1	1	5	6	1	1	2	6	8	9	—
10	3	2	0	1	2	3	1	1	0	4	6	3	—
11	6	4	3	3	2	8	10	10	9	7	4	4	—
12	5	5	4	4	3	2	5	3	2	2	3	5	—
13	7	8	6	2	3	3	3	5	3	2	8	6	—
14	10	10	7	7	4	4	8	8	9	8	8	9	—
15	9	3	3	4	10	10	10	6	6	3	2	8	—
16	2	1	2	2	1	4	3	2	2	4	6	7	—
17	8	7	2	2	2	1	3	2	3	4	6	5	—
18	6	6	8	6	7	6	7	4	4	5	3	6	—
19	10	10	8	9	9	6	5	3	4	3	4	3	—
20	9	9	10	8	8	9	3	2	5	7	7	5	—
21	9	10	9	8	8	9	10	10	8	8	9	8	—
22	10	10	10	10	10	9	9	10	9	9	8	9	—
23	9	2	3	2	8	3	4	3	1	1	3	6	—
24	9	9	10	10	10	10	10	8	7	9	8	7	—
25	2	3	2	2	1	2	1	0	0	0	6	7	—
26	3	2	2	3	3	4	2	2	2	3	7	9	—
27	3	2	2	2	4	4	7	9	9	6	4	7	—
28	7	7	4	6	3	9	9	9	9	10	9	9	—
29	7	9	9	7	5	5	5	3	7	5	5	9	—
30	3	3	2	2	3	2	0	4	1	1	6	7	—
Hourly Means.	5.7	5.4	4.7	4.5	4.8	5.4	5.3	4.5	4.3	5.1	5.8	6.7	—

APRIL. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8	10	7	6	5	6	4	2	4	3	2	2	6.5
2	10	10	10	10	10	9	8	9	7	9	10	10	7.0
3	5	4	3	4	9	8	9	9	8	6	9	10	5.9
4	5	2	1	3	10	10	8	5	3	8	8	3	4.9
5	3	6	6	9	10	6	4	8	4	3	5	2	3.5
6	6	8	3	10	10	10	10	1	3	1	1	2	5.9
7	9	9	10	10	10	10	5	4	6	6	7	8	6.6
8	4	6	4	8	9	10	9	9	9	7	4	3	5.1
9	5	9	9	9	9	8	10	4	5	4	3	4	5.2
10	4	3	8	4	5	10	7	7	5	3	4	5	3.8
11	8	7	7	8	9	6	7	10	3	8	9	9	6.7
12	5	7	4	5	7	3	7	10	10	10	10	7	5.3
13	7	7	7	8	8	8	10	10	10	10	10	10	6.7
14	8	4	4	5	7	7	7	4	4	4	4	9	6.6
15	4	7	6	8	7	4	4	3	3	4	2	1	5.3
16	7	4	3	2	2	4	4	3	3	2	2	7	3.3
17	3	4	4	2	5	10	7	9	6	6	5	4	4.6
18	8	7	6	8	9	10	10	10	10	4	10	6	6.9
19	9	7	5	5	9	8	9	8	10	7	6	7	6.8
20	3	5	7	10	10	8	8	6	4	4	5	7	6.6
21	7	6	4	4	7	6	7	4	4	9	7	10	7.5
22	9	9	8	7	7	5	10	10	10	10	8	8	8.9
23	4	7	6	7	8	10	10	10	8	8	8	6	5.7
24	8	7	8	9	9	9	4	3	3	2	2	2	7.2
25	4	6	8	7	8	8	7	9	4	4	5	4	4.2
26	10	10	10	10	10	10	7	6	7	4	2	2	5.4
27	10	7	8	9	10	10	10	10	10	10	9	9	7.1
28	9	9	10	9	10	7	5	9	10	8	10	8	8.1
29	8	7	4	8	9	10	10	9	6	7	3	2	6.6
30	4	2	3	2	2	1	3	2	4	4	5	6	3.0
Hourly Means.	6.5	6.5	6.1	6.9	8.0	7.7	7.3	6.8	6.1	5.8	5.8	5.8	5.90

Mean Batavia Time.		8—8½ A. M.	8½—9	9—9½	9½—10	10—10½	10½—11	11—11½	11½—12	12—12½	12½—1 P. M.	1—1½	1½—2	2—2½	2½—3	3—3½	3½—4	Daily and Monthly Means.
APRIL.	1	5	9	7	7	1	6	9	8	4	4	3	0	1	5	7	8	5.3
	2	10	10	10	10	9	9	8	3	0	0	1	6	7	10	10	1	6.5
	3	10	10	10	6	0	9	2	4	8	6	10	9	10	10	10	10	7.8
	4	10	10	10	9	9	5	5	5	6	3	7	8	9	10	7	4	7.3
	5	10	10	10	10	10	10	10	10	10	10	7	7	9	10	3	0	8.5
	6	10	9	7	4	3	10	7	0	1	6	7	0	6	10	8	3	5.7
	7	0	6	4	7	3	3	7	6	6	6	0	1	7	6	0	0	3.9
	8	10	9	9	8	10	8	7	0	7	9	7	0	0	4	5	4	6.1
	9	10	9	9	7	3	1	1	0	0	1	8	4	1	0	0	0	3.4
	10	2	7	7	7	9	7	5	10	8	8	10	10	10	5	1	7	7.1
	11	2	3	7	7	7	8	10	7	8	6	3	0	2	1	1	2	4.6
	12	10	10	10	10	10	9	10	8	8	8	7	10	10	10	10	10	9.4
	13	9	10	10	10	10	8	4	6	10	10	8	9	10	6	1	1	7.6
	14	0	0	0	1	4	3	4	0	0	0	5	10	10	9	8	9	3.9
	15	7	10	6	5	8	6	8	3	7	5	6	7	6	8	8	7	6.7
	16	10	10	10	10	7	7	6	6	8	8	7	7	9	10	10	8	8.3
	17	10	10	8	7	8	9	6	8	7	10	8	3	10	10	10	9	8.3
	18	10	8	4	8	8	7	10	10	7	2	0	7	10	10	8	6	7.2
	19	10	10	10	10	10	4	3	9	9	8	0	2	4	7	7	6	6.8
	20	8	6	2	4	0	5	10	7	10	9	9	9	9	8	7	0	6.4
	21	0	3	7	6	1	0	3	4	4	0	4	5	8	7	1	0	3.3
	22	0	1	2	2	3	7	3	1	8	2	1	1	7	7	0	0	2.8
	23	10	10	10	10	10	10	10	10	5	9	8	9	7	8	9	10	9.1
	24	8	9	7	0	0	0	1	3	2	5	3	3	6	7	7	0	3.8
	25	10	10	10	10	10	10	8	8	9	10	8	10	7	6	6	5	8.6
	26	9	9	9	9	9	8	5	5	3	2	0	0	0	1	5	8	5.1
	27	0	0	0	1	6	7	7	7	3	0	0	4	5	4	1	1	2.9
	28	0	1	2	4	3	4	0	3	4	5	1	1	4	4	1	1	2.2
	29	0	1	6	6	7	6	7	1	9	8	3	8	9	0	0	0	4.4
	30	10	10	10	10	10	7	10	10	2	4	10	10	10	10	10	10	8.9
Means.		6.7	7.3	7.1	6.8	6.3	6.3	6.2	5.4	5.8	5.5	5.0	5.3	6.8	6.8	5.4	4.3	6.06

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES

APRIL.

Mean Batavia Time.	7h30 A. M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	29.4	32.4	41.9	49.5	52.0	42.9	42.7	50.4	52.0	49.9	48.9	50.3	45.6	33.0	36.5	42.9	44.4	38.9	39.4
2	39.1	45.6	48.0	51.0	52.4	52.7	50.0	49.6	48.7	37.7	—	—	40.6	47.1	46.4	46.4	44.1	38.5	36.3
3	39.2	46.9	48.0	50.9	50.9	42.5	38.0	50.5	40.7	49.8	51.0	53.9	54.9	55.2	52.2	51.7	50.6	48.8	46.3
4	39.4	45.1	48.2	50.8	51.6	47.4	53.6	41.8	46.2	47.8	46.9	45.5	52.4	52.4	53.2	52.9	51.4	41.4	43.9
5	40.0	46.4	48.6	50.8	51.0	52.3	53.1	53.9	54.4	53.9	54.8	56.4	53.0	49.5	56.8	53.0	37.5	30.3	31.7
6	32.8	46.0	47.6	48.8	46.8	46.4	51.7	57.4	46.1	39.9	41.2	52.9	50.7	40.9	49.8	53.4	47.3	36.0	29.9
7	27.3	30.0	32.6	44.2	42.1	51.3	41.9	49.2	47.6	49.3	48.9	48.9	39.5	41.4	48.6	43.8	30.4	32.7	33.4
8	39.9	46.6	48.8	49.9	51.7	52.4	53.4	54.9	49.6	42.5	50.4	50.0	46.2	35.2	33.3	41.5	47.4	41.5	33.8
9	32.6	45.1	47.2	49.6	50.6	45.9	40.9	44.1	40.0	43.6	44.2	49.8	53.9	47.6	39.4	33.5	34.4	34.0	33.2
10	39.6	37.9	38.8	49.5	49.6	52.9	54.0	46.4	52.0	55.4	48.8	53.5	53.6	53.5	56.9	—	37.9	48.1	46.6
11	26.6	31.4	36.9	41.5	50.4	49.5	47.4	56.0	55.4	52.1	52.3	43.9	48.6	44.4	46.4	41.4	40.4	38.9	35.4
12	38.2	44.2	46.8	48.5	50.7	52.7	53.3	53.0	54.0	54.6	56.1	57.0	52.4	53.1	51.8	50.4	49.1	47.4	39.6
13	33.4	39.6	42.9	50.0	52.2	52.3	51.3	49.2	51.1	55.1	54.2	53.9	48.9	52.5	42.3	42.7	41.0	37.2	35.2
14	28.5	28.8	28.9	31.2	33.6	41.5	44.8	48.0	46.8	38.4	38.6	49.9	51.6	52.3	52.7	50.9	47.7	45.0	42.6
15	25.9	26.9	41.0	39.0	44.3	50.4	53.3	50.9	55.6	40.4	45.3	48.1	46.2	45.9	51.4	47.9	50.7	40.9	38.4
16	40.5	46.0	48.6	50.4	51.6	49.9	46.3	45.3	44.4	51.7	51.6	49.8	49.0	50.4	46.4	51.4	50.4	45.4	44.4
17	39.9	45.4	48.0	48.8	51.0	52.9	53.2	49.8	53.9	55.5	49.2	55.5	47.9	47.4	52.9	52.7	50.4	47.4	42.5
18	27.5	38.2	32.8	47.6	38.0	47.8	49.9	53.8	55.4	53.1	53.4	45.0	44.0	54.0	54.3	51.6	46.6	40.4	34.1
19	30.4	40.0	42.6	44.5	45.9	51.9	50.7	44.8	51.5	56.3	54.5	48.7	36.9	42.1	44.3	48.4	46.6	43.4	38.2
20	32.9	41.4	39.9	37.4	39.3	38.9	43.0	51.4	52.1	52.3	52.1	53.7	54.4	50.9	51.2	49.7	47.3	—	—
21	28.9	32.3	31.9	47.0	48.9	47.4	39.8	48.0	48.6	50.4	53.4	42.9	46.9	44.9	50.7	48.9	37.9	36.4	36.8
22	32.1	30.7	34.6	38.5	43.6	37.8	48.6	48.7	40.1	41.2	36.9	51.4	44.8	44.4	43.9	45.5	44.5	37.0	33.3
23	39.5	45.8	47.2	49.2	49.5	51.8	52.7	50.7	52.3	51.4	47.5	53.3	52.0	48.6	53.0	47.9	46.7	46.5	36.7
24	27.8	34.3	37.6	45.9	41.3	39.9	38.6	43.1	48.2	48.9	43.1	46.4	48.0	44.9	48.2	47.9	46.2	35.2	33.5
25	39.9	46.5	48.0	50.4	50.4	52.0	53.0	52.9	53.9	52.3	54.6	56.0	55.0	57.9	48.4	50.4	41.8	43.5	37.8
26	39.0	46.9	48.4	49.4	51.0	52.9	51.4	50.8	51.4	47.6	53.2	—	30.5	35.4	36.4	37.9	35.4	—	—
27	24.7	25.4	24.9	26.5	29.6	46.2	50.6	52.7	52.5	54.0	42.9	35.4	40.3	52.8	53.4	38.2	42.9	36.0	33.6
28	28.7	33.9	36.0	39.1	41.9	43.7	44.4	44.0	53.0	48.9	49.1	42.4	42.1	43.3	41.6	39.1	37.3	36.0	33.2
29	25.9	27.4	29.0	41.5	45.8	50.8	52.1	47.1	33.2	39.8	36.1	36.3	51.1	54.3	42.3	50.7	48.9	35.9	33.9
30	26.4	42.9	47.4	50.4	50.4	52.9	50.4	53.9	54.9	44.9	40.1	49.4	51.8	51.4	50.3	49.1	46.4	43.6	35.6
Means.	33.20	39.00	41.44	45.73	46.94	48.33	48.47	49.74	49.52	48.62	48.25	49.29	47.76	47.56	47.83	46.96	44.12	40.23	37.12

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	12.1	18.2	35.4	6.6	P N	1.0	10.1	8.1	5.6	3.0	2.5	2.0	—
2	13.2	12.6	10.1	8.6	10.1	6.6	7.6	5.1	0.5	2.0	2.5	1.0	—
3	5.1	6.6	6.1	2.0	11.1	12.1	13.6	5.1	4.6	3.0	1.5	2.0	—
4	9.1	8.6	7.6	8.1	9.6	9.6	10.1	8.6	7.1	3.0	2.0	2.5	—
5	13.2	9.1	9.6	12.6	10.1	7.1	22.8	15.2	7.1	3.5	3.0	4.0	—
6	8.6	9.6	9.1	18.2	23.8	5.1	9.1	8.6	5.1	3.0	2.0	2.5	—
7	15.2	18.6	19.2	10.1	10.1	17.2	17.2	10.1	7.1	2.5	2.0	1.0	—
8	18.2	12.1	12.6	14.2	12.6	13.2	11.1	6.1	5.1	1.0	2.5	22.8	—
9	20.2	16.2	15.2	14.2	9.1	10.6	13.6	12.1	8.1	4.0	3.5	2.0	—
10	23.8	9.6	12.6	8.6	9.6	16.6	13.6	8.6	4.6	0.0	2.5	1.5	—
11	8.6	11.1	7.6	7.6	8.1	9.6	8.6	10.1	9.6	5.1	3.0	3.0	—
12	10.1	7.6	6.6	8.6	8.6	17.2	19.6	11.1	7.1	3.5	3.0	2.5	—
13	14.2	11.6	13.2	15.2	10.1	7.1	11.1	11.6	7.6	3.5	4.0	2.5	—
14	11.6	10.6	9.6	7.6	9.6	19.2	19.2	11.1	5.6	6.1	5.1	3.0	—
15	11.6	13.2	9.6	13.2	P N	35.4	20.2	15.6	6.1	5.1	4.0	3.5	—
16	18.2	12.6	15.2	9.6	8.1	7.1	10.6	10.1	5.6	4.0	3.5	2.5	—
17	17.6	15.2	16.6	11.1	7.1	8.1	6.6	5.6	5.6	3.0	2.5	2.0	—
18	7.1	6.6	7.1	6.1	5.1	5.6	8.6	9.1	11.1	3.5	2.5	2.0	—
19	10.1	9.1	10.1	6.6	8.1	15.2	13.6	10.6	6.1	4.6	2.0	2.5	—
20	8.1	8.6	5.6	5.6	5.1	8.1	12.6	7.1	5.6	5.1	2.5	3.0	—
21	8.1	8.1	8.6	7.1	9.6	18.6	15.6	11.1	P	6.1	3.5	2.5	—
22	8.6	8.1	5.1	4.6	4.0	6.1	9.6	6.6	6.6	N	3.5	2.0	—
23	3.5	3.5	3.5	3.0	3.5	7.6	11.6	5.6	1.5	1.0	0.5	0.5	—
24	11.1	14.6	P N	3.5	5.1	4.0	— 0.5	6.6	1.0	2.5	2.5	1.5	—
25	9.1	6.6	5.6	4.6	4.0	5.1	6.1	2.5	2.0	2.0	2.0	3.5	—
26	3.5	0.5	0.5	1.0	2.5	3.5	2.5	0.0	—	—	—	—	—
27	9.6	10.1	8.6	6.6	7.1	5.1	13.6	P	P	6.1	5.1	P N	—
28	7.6	8.1	10.1	8.1	10.6	11.1	13.6	11.1	8.6	6.6	7.1	5.1	—
29	16.6	20.2	15.2	15.2	12.6	15.2	16.6	9.1	7.1	3.5	1.5	P N	—
30	20.6	19.2	19.6	11.1	11.6	12.1	13.6	7.6	8.1	4.0	3.0	3.5	—
Hourly Means.	11.8	10.9	10.9	8.6	8.8	10.7	12.1	8.6	5.9	3.6	2.9	3.2	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL. 1	0.0	— 7.6	3.0	— 1.5	3.5	5.1	6.6	8.6	2.5	14.2	10.6	12.6	7.1
2	P N	— 1.5	3.0	2.5	6.1	8.6	10.1	11.6	12.6	14.2	9.6	2.0	6.9
3	1.0	2.0	1.5	4.0	P N	6.6	0.5	8.1	9.1	10.6	12.6	10.1	6.0
4	1.5	2.0	2.5	P N	P N	P N	P N	P N	5.6	9.1	8.1	10.1	6.6
5	3.0	3.0	3.0	P N	P N	16.6	15.6	12.6	9.6	14.2	9.6	8.1	9.7
6	3.0	3.0	— 1.0	N	18.6	P N	P N	5.1	7.6	12.6	14.6	12.1	8.6
7	1.5	— 0.5	2.5	17.2	1.5	3.5	13.6	17.2	14.2	13.2	21.7	21.2	10.7
8	— 0.5	3.5	4.6	6.1	P N	P N	P N	21.7	12.6	16.2	13.2	15.2	10.7
9	7.1	P N	P N	5.1	6.6	13.2	P N	P N	P N	15.2	18.6	19.2	11.3
10	2.0	2.0	N	4.6	6.1	13.6	24.8	P N	10.1	8.6	9.1	7.1	9.1
11	0.5	1.5	3.0	3.0	4.0	8.1	17.6	18.2	9.1	5.6	5.1	9.1	7.4
12	1.5	0.5	0.5	3.0	4.0	21.2	20.6	12.1	13.6	12.6	13.6	8.6	9.1
13	2.0	— 1.5	3.0	5.6	8.1	6.1	P N	P N	20.6	18.6	P N	P N	8.7
14	3.0	2.5	3.0	2.0	5.1	5.1	10.6	12.6	18.6	16.2	14.2	12.1	9.3
15	4.6	2.5	4.0	3.5	4.0	8.1	12.1	13.6	13.6	13.2	16.6	15.2	10.8
16	3.5	3.0	2.5	4.0	4.0	5.1	7.6	11.1	25.3	21.2	18.6	18.6	9.7
17	2.5	2.0	1.0	2.5	2.5	7.6	5.1	10.1	11.1	10.1	10.1	10.1	7.3
18	3.0	3.5	2.5	2.5	5.6	P N	P N	P N	7.1	11.1	12.1	11.1	6.3
19	9.6	6.1	3.5	7.1	6.1	18.6	35.4	7.6	P N	P N	9.1	8.6	9.6
20	3.5	4.0	10.1	P N	P N	18.6	9.1	10.1	12.1	12.1	12.6	12.1	8.2
21	2.0	2.0	1.0	1.5	—	P N	P N	12.1	10.6	11.6	9.1	9.1	7.9
22	2.5	3.0	2.0	2.5	3.0	2.5	— 15.2	1.0	15.2	5.1	3.5	3.5	4.1
23	1.5	1.0	0.0	2.5	3.0	5.1	P N	11.1	21.2	15.6	9.1	10.1	5.5
24	2.5	4.0	2.5	2.5	4.0	4.0	6.1	7.1	8.1	7.6	7.6	9.1	5.1
25	3.5	2.5	1.5	0.5	1.5	— 1.5	5.1	6.6	2.0	3.5	3.5	2.0	3.5
26	—	—	—	—	—	—	—	8.6	10.1	10.1	13.6	11.1	5.2
27	5.1	3.0	3.0	6.1	P N	P N	10.1	11.6	10.1	8.1	9.1	9.1	7.7
28	5.1	4.6	4.0	8.1	5.1	— 6.6	8.1	14.6	17.6	6.6	11.1	18.2	8.5
29	9.6	3.5	4.0	0.0	5.1	P N	P N	P N	P N	14.6	22.8	22.3	11.3
30	4.0	3.0	4.0	4.0	4.6	5.6	10.6	18.6	10.6	4.6	4.0	3.5	8.8
Hourly Means.	3.1	2.0	2.7	4.0	5.1	7.9	10.7	11.3	11.9	11.6	11.5	11.1	7.95

BAROMETRIC PRESSURE.

BAROMETER AT 0° C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

MAY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	7.71	7.04	6.89	6.80	6.90	7.26	7.79	8.48	8.61	8.68	8.40	7.72	—
2	8.31	7.63	7.33	7.09	7.34	7.55	7.93	8.54	8.69	8.57	8.38	7.67	—
3	9.45	9.13	8.84	8.80	8.72	9.32	9.53	9.91	10.23	10.07	9.61	8.67	—
4	9.62	9.45	8.68	8.68	8.89	9.33	9.83	10.40	10.39	10.35	9.85	9.00	—
5	8.74	8.67	8.44	8.26	8.64	8.94	9.05	9.69	9.84	9.76	9.55	8.84	—
6	9.00	8.72	8.59	8.44	8.61	8.78	9.25	9.44	9.35	9.33	9.20	8.75	—
7	9.29	8.80	8.67	8.39	8.55	8.76	9.18	9.56	9.78	9.56	9.31	8.81	—
8	10.08	9.50	9.35	9.48	9.54	9.76	10.25	10.49	10.78	10.53	9.95	9.27	—
9	9.56	9.28	8.89	8.83	9.28	9.55	9.89	10.35	10.34	10.14	9.60	9.05	—
10	8.88	8.61	8.29	8.33	8.50	8.99	9.59	9.88	10.06	9.80	9.51	8.93	—
11	8.81	8.23	8.14	8.31	8.36	8.53	9.02	9.59	9.91	9.77	9.43	8.67	—
12	9.66	9.16	8.88	8.74	8.87	8.88	9.14	9.57	9.90	9.97	9.64	9.15	—
13	9.59	9.08	8.69	8.35	8.68	8.75	9.50	10.34	10.69	10.09	9.50	8.80	—
14	8.77	8.45	7.93	7.63	7.93	7.99	8.65	8.91	9.04	9.14	8.62	8.10	—
15	8.77	8.49	7.81	7.70	7.91	7.89	8.38	8.89	9.30	9.26	8.96	8.37	—
16	9.75	8.93	8.65	8.63	8.53	8.94	9.47	9.74	9.88	9.84	9.45	8.98	—
17	8.86	9.28	8.55	8.76	9.18	9.19	9.38	10.04	10.34	10.13	9.84	9.21	—
18	8.73	8.70	8.85	8.78	9.05	9.18	9.00	9.30	9.64	9.59	9.58	9.12	—
19	9.28	8.51	8.08	8.17	8.24	8.35	8.98	9.32	9.39	9.34	8.93	8.41	—
20	8.50	7.87	7.59	7.56	7.84	8.20	8.58	9.05	9.20	8.74	8.28	7.88	—
21	8.63	8.32	7.90	7.68	7.86	8.18	9.09	9.44	9.49	9.35	8.95	8.12	—
22	8.57	7.84	7.65	7.63	7.85	8.03	8.50	9.13	9.41	9.10	9.00	8.18	—
23	8.40	7.83	7.21	7.28	7.65	8.39	8.79	9.42	9.46	9.21	9.18	8.04	—
24	7.38	7.03	6.83	6.64	6.94	7.03	7.67	8.04	8.16	8.17	7.51	7.21	—
25	8.46	8.33	7.75	7.88	8.15	8.38	8.80	9.28	9.90	9.90	9.30	8.39	—
26	8.19	8.01	7.68	7.49	7.77	8.27	8.57	8.70	8.61	8.09	7.93	7.55	—
27	7.31	6.88	6.54	6.50	6.62	7.04	7.49	8.03	8.36	8.43	8.11	7.55	—
28	7.95	7.35	6.71	6.21	6.48	6.65	7.45	8.44	8.54	8.46	7.97	7.32	—
29	7.85	7.59	7.55	7.41	7.51	7.93	8.09	8.13	8.08	8.34	8.35	8.28	—
30	7.44	7.20	6.86	6.65	7.11	7.24	7.50	8.20	8.60	8.14	7.91	7.28	—
31	7.75	7.48	6.56	6.73	6.89	7.35	7.86	8.55	8.78	8.53	8.15	7.87	—
Hourly Means.	8.69	8.29	7.95	7.87	8.08	8.34	8.78	9.25	9.44	9.30	8.97	8.36	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	7.22	6.06	5.82	6.33	7.32	7.50	8.07	8.92	9.15	9.28	8.84	8.85	7.74
2	7.07	6.55	7.09	6.76	7.28	8.08	8.58	9.23	9.24	9.60	9.41	9.63	8.06
3	7.77	7.05	6.75	6.88	7.47	7.88	8.50	9.34	9.80	9.74	10.23	9.80	8.90
4	8.08	7.65	7.41	7.25	7.74	7.97	8.19	8.67	9.07	9.18	9.51	9.06	8.93
5	8.27	7.85	7.82	7.62	7.76	8.13	8.58	9.37	9.64	9.78	9.60	9.23	8.84
6	8.25	7.67	7.36	7.72	8.18	8.83	9.33	9.72	10.15	10.33	10.24	10.11	8.97
7	8.46	7.88	7.66	7.22	7.94	8.80	9.10	9.68	10.47	10.61	10.38	10.30	9.05
8	8.48	7.83	7.50	7.59	7.88	8.56	9.39	10.20	10.57	10.52	10.29	9.98	9.49
9	8.30	7.57	7.20	7.20	7.24	7.51	8.42	8.93	9.49	9.28	9.27	9.20	8.93
10	8.32	7.67	7.23	7.24	7.31	7.57	8.04	8.65	9.08	9.32	9.45	9.23	8.69
11	8.21	7.56	7.11	7.24	7.81	8.56	9.41	10.22	10.22	10.35	10.39	10.31	8.92
12	8.35	7.77	7.19	7.42	7.96	8.81	9.19	9.73	10.17	10.37	10.21	9.88	9.11
13	7.89	7.25	6.85	6.72	6.84	7.31	7.66	8.21	8.70	8.93	9.13	9.10	8.61
14	7.36	6.85	6.23	6.18	6.53	7.30	7.73	8.68	9.23	8.93	8.92	9.00	8.09
15	7.69	7.08	6.72	6.62	7.28	7.54	8.46	9.11	9.63	10.01	10.05	9.93	8.41
16	8.41	7.94	7.41	7.23	7.39	7.82	9.16	10.07	10.26	10.44	10.47	9.69	9.05
17	8.82	8.26	8.01	8.02	8.16	7.99	8.60	9.17	9.08	8.85	8.61	8.91	8.97
18	8.34	7.65	7.33	7.35	7.77	8.18	8.63	9.33	9.97	9.81	9.74	9.64	8.89
19	7.57	7.47	6.36	6.37	6.57	6.88	7.80	8.03	8.48	8.78	8.57	8.57	8.17
20	7.41	6.88	6.58	6.58	6.82	7.56	7.91	8.53	9.13	9.48	9.36	9.19	8.11
21	7.61	6.95	6.50	6.30	6.73	7.02	8.12	8.61	8.94	9.30	9.19	8.88	8.22
22	7.11	6.47	6.48	6.57	7.16	7.47	8.18	8.71	9.21	9.24	8.80	8.47	8.12
23	7.19	6.58	6.09	6.04	6.37	6.65	7.23	7.57	8.04	8.27	8.23	7.85	7.79
24	6.41	5.82	5.66	5.80	6.22	6.71	7.29	8.00	8.53	8.74	9.34	9.11	7.34
25	7.33	6.37	5.82	5.82	6.33	7.07	7.85	8.24	8.67	8.80	8.57	8.61	8.08
26	7.01	6.58	6.38	6.47	6.88	7.03	7.49	8.58	8.75	8.83	8.66	8.18	7.82
27	7.30	6.58	6.26	6.04	6.45	6.78	7.10	7.73	8.44	8.59	8.09	7.95	7.34
28	6.72	6.63	6.35	6.51	6.97	7.46	7.66	8.39	8.82	9.38	9.13	8.49	7.59
29	8.10	7.43	6.95	7.13	7.16	7.34	7.45	7.58	7.83	7.73	7.72	7.64	7.72
30	6.66	6.08	5.63	5.62	6.09	6.50	6.89	7.45	7.68	8.18	7.86	7.89	7.19
31	7.43	6.93	6.68	6.40	6.36	6.88	7.74	8.47	8.80	8.94	8.91	8.84	7.69
Hourly Means.	7.71	7.12	6.79	6.78	7.16	7.60	8.19	8.81	9.20	9.34	9.26	9.08	8.35

STANDARD THERMOMETER.

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	79.3	79.0	78.3	78.2	77.6	77.1	77.2	79.4	83.0	85.0	86.2	87.1	—
2	77.5	77.0	76.8	76.6	76.5	76.2	76.9	78.6	80.8	83.4	85.9	87.6	—
3	77.1	76.8	76.6	76.2	76.1	76.1	76.6	78.5	80.0	82.2	84.3	85.6	—
4	78.8	78.2	77.2	77.0	76.5	76.5	77.0	78.6	81.0	80.7	82.3	83.5	—
5	76.8	76.4	76.2	75.8	75.4	75.3	76.1	78.5	81.1	82.8	83.9	85.2	—
6	77.0	76.5	76.3	76.0	75.9	75.7	75.5	76.5	78.2	80.1	82.2	84.0	—
7	77.0	76.8	76.5	76.3	76.0	75.6	75.9	77.2	80.6	83.6	85.7	87.6	—
8	77.6	77.0	76.7	76.1	75.5	75.1	75.3	77.0	80.0	82.9	85.4	85.8	—
9	77.4	77.0	76.4	75.7	75.5	75.1	76.0	79.1	82.7	85.0	86.4	88.0	—
10	77.5	76.8	76.4	76.0	75.8	75.4	76.1	79.2	82.0	84.8	85.2	87.1	—
11	78.6	78.4	78.1	77.5	77.0	76.6	77.1	80.0	83.2	85.8	85.8	88.2	—
12	77.0	76.3	76.1	75.7	75.3	75.1	76.4	78.1	81.1	83.8	85.1	85.6	—
13	77.1	76.6	76.1	75.9	75.6	75.2	75.4	76.8	79.6	83.7	85.3	86.9	—
14	78.8	78.4	77.8	77.4	76.9	76.7	77.6	80.7	83.0	85.6	86.6	88.2	—
15	78.7	78.1	77.8	77.2	76.8	76.4	77.0	79.7	83.1	85.7	87.6	88.8	—
16	77.7	77.0	76.8	76.6	76.3	76.1	76.7	78.7	81.7	84.2	86.0	87.6	—
17	77.6	77.3	77.1	76.7	76.3	76.0	76.3	76.9	78.2	80.0	83.1	85.4	—
18	78.0	77.9	77.2	76.4	76.2	75.7	76.3	78.6	81.3	84.3	85.3	88.0	—
19	77.5	76.9	76.2	75.7	75.8	75.7	77.0	79.9	83.0	85.8	88.0	88.5	—
20	79.0	78.4	78.0	77.2	77.5	77.3	78.3	79.6	82.4	85.0	86.9	87.1	—
21	78.5	77.6	76.8	76.5	76.3	75.8	76.3	78.2	81.5	84.4	86.6	88.2	—
22	78.0	77.5	77.2	77.2	76.8	76.3	77.2	79.0	81.0	84.1	87.2	87.9	—
23	77.9	77.2	77.0	76.8	77.0	77.1	76.3	76.8	78.3	79.4	80.0	81.3	—
24	78.8	78.4	78.0	77.7	77.2	77.3	78.1	80.0	82.9	84.5	85.8	86.7	—
25	75.6	75.0	74.6	74.8	74.8	74.6	75.0	75.8	77.2	78.2	79.8	81.4	—
26	78.3	77.6	77.6	77.4	77.4	77.1	77.7	78.8	81.0	83.0	83.8	84.6	—
27	77.3	76.7	76.3	76.1	75.7	75.4	76.2	79.0	81.6	83.1	83.0	79.4	—
28	76.5	76.1	76.0	75.7	75.5	75.4	75.9	77.0	79.0	82.1	83.7	85.8	—
29	76.4	76.0	75.8	75.4	75.4	75.2	75.6	77.0	78.9	80.6	82.1	83.0	—
30	76.0	75.4	75.1	74.9	74.7	74.1	74.4	75.8	78.0	80.9	82.6	84.5	—
31	77.1	76.6	76.0	75.7	75.3	75.0	75.5	78.2	81.1	83.1	85.8	85.3	—
Hourly Means.	77.63	77.13	76.74	76.40	76.15	75.88	76.42	78.30	80.85	83.15	84.76	85.93	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	86.8	87.9	87.9	85.6	81.6	79.2	78.4	78.0	78.0	77.7	77.9	77.9	81.01
2	89.0	86.8	81.2	82.4	82.1	81.3	80.5	79.0	78.3	78.4	78.3	77.9	80.38
3	87.2	88.0	88.6	87.2	86.5	84.9	83.3	82.0	80.8	80.2	79.9	79.3	81.42
4	85.0	87.2	87.6	86.6	84.6	82.6	81.2	80.4	79.5	78.4	77.9	77.0	80.64
5	86.8	86.4	85.2	83.1	82.0	80.9	80.3	79.2	78.7	78.1	77.6	77.2	79.96
6	86.0	88.4	88.0	82.5	82.0	81.5	80.7	79.7	79.0	78.6	78.1	77.5	79.83
7	87.8	87.1	87.1	86.3	85.4	81.4	80.1	78.4	78.2	78.2	78.2	77.9	80.62
8	86.0	87.1	87.0	85.0	84.6	83.9	82.1	80.3	78.9	78.4	77.9	77.7	80.55
9	88.0	88.6	87.6	86.8	86.0	84.3	82.6	81.6	80.6	79.8	79.2	78.4	81.58
10	88.3	86.6	86.9	86.1	85.5	84.0	82.2	81.6	80.7	80.0	79.4	78.6	81.34
11	87.5	86.0	87.0	86.4	85.5	82.1	80.7	79.5	79.0	78.2	78.0	77.5	81.40
12	87.2	87.2	86.9	86.2	85.7	82.7	80.6	79.9	79.4	78.4	77.8	77.6	80.63
13	88.0	87.9	86.7	86.7	85.7	84.8	83.2	82.2	80.8	80.1	79.7	79.0	81.21
14	87.3	87.2	87.8	87.4	85.7	84.7	83.6	82.4	81.2	80.4	79.8	79.1	82.26
15	89.7	89.1	88.5	87.3	86.5	85.1	84.0	81.0	79.8	79.2	78.5	78.0	82.23
16	87.7	87.7	87.9	86.7	85.9	82.2	80.8	80.0	79.3	78.8	78.4	78.2	81.21
17	86.0	85.7	86.2	84.3	80.9	79.7	79.5	79.7	79.5	79.1	78.9	78.5	79.95
18	88.4	88.6	88.0	87.0	86.2	84.5	83.3	82.5	81.1	80.1	79.5	78.6	81.79
19	89.0	89.0	89.0	88.5	87.0	85.3	84.0	82.4	81.5	80.9	80.0	79.6	82.34
20	87.6	88.0	88.4	87.0	86.5	85.3	84.3	83.2	82.1	81.0	80.6	79.6	82.51
21	89.3	88.2	86.6	87.5	86.6	85.2	84.0	83.0	81.8	80.2	79.1	78.5	81.95
22	89.0	88.8	84.6	84.2	84.0	83.1	82.1	81.0	80.4	80.0	79.5	79.2	81.47
23	82.8	83.4	84.2	83.7	83.3	82.1	81.7	81.2	80.7	80.0	79.5	79.0	79.86
24	87.6	85.6	85.0	85.2	84.6	83.3	82.3	81.0	80.8	80.4	76.5	76.3	81.42
25	83.8	85.0	86.2	85.7	84.0	83.3	82.4	81.9	81.2	80.5	80.0	78.7	79.56
26	84.8	85.0	84.7	84.5	83.5	82.2	81.2	80.7	80.1	79.0	78.4	78.0	80.68
27	79.2	77.8	78.1	78.3	78.1	77.9	77.3	77.3	77.1	77.3	77.3	76.6	78.00
28	86.4	81.0	81.2	80.2	78.9	78.5	77.6	76.9	76.8	76.8	76.8	76.4	78.59
29	83.0	84.5	83.0	82.2	81.6	81.3	80.6	79.6	78.0	77.3	76.9	76.4	78.99
30	86.2	86.6	85.0	84.3	84.5	82.5	81.2	80.4	79.7	78.7	78.1	77.4	79.63
31	85.0	85.3	81.2	80.7	82.4	81.6	80.9	79.8	78.9	78.7	78.0	77.5	79.78
Hourly Means.	86.66	86.51	85.91	85.02	84.11	82.63	81.51	80.51	79.74	79.13	78.57	78.04	80.74

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY.	1	934	942	942	942	941	941	924	879	774	697	721	686	—
	2	933	949	957	948	948	957	940	885	827	776	734	667	—
	3	891	907	916	932	940	940	932	893	849	815	742	727	—
	4	902	917	916	924	948	957	958	885	827	896	830	790	—
	5	891	899	915	915	914	930	906	869	791	780	762	653	—
	6	907	924	915	931	931	940	931	915	868	834	765	727	—
	7	932	940	948	957	957	948	966	916	827	694	700	612	—
	8	933	941	948	931	931	930	922	883	811	753	686	688	—
	9	916	932	924	931	931	939	923	855	718	677	650	614	—
	10	916	924	923	931	931	939	931	870	830	704	719	679	—
	11	933	926	925	941	949	940	924	856	796	713	727	645	—
	12	924	948	940	948	957	947	915	908	851	762	725	713	—
	13	916	932	940	931	931	939	939	907	817	742	733	678	—
	14	901	917	917	925	940	948	933	843	762	727	652	645	—
	15	933	942	941	941	948	940	932	879	776	682	626	600	—
	16	907	924	924	924	940	940	932	885	807	708	662	648	—
	17	941	949	958	948	948	940	932	924	893	864	782	699	—
	18	908	860	843	890	873	931	915	838	770	736	705	644	—
	19	916	907	915	923	931	948	924	834	760	713	644	646	—
	20	918	926	933	941	925	916	853	825	773	718	646	679	—
	21	877	900	916	915	915	931	923	884	777	709	627	609	—
	22	917	932	924	916	924	948	932	847	820	743	659	655	—
	23	925	949	949	957	966	958	948	949	901	886	872	828	—
	24	942	950	950	958	966	949	942	895	832	730	754	671	—
	25	948	956	965	965	965	965	974	957	932	908	879	851	—
	26	917	933	925	925	932	932	884	869	836	789	762	737	—
	27	925	932	940	923	931	939	906	855	837	810	817	934	—
	28	966	974	974	974	974	966	966	958	879	801	741	674	—
	29	948	957	957	957	957	947	940	907	847	797	758	739	—
	30	940	939	939	939	930	947	947	923	877	813	774	723	—
	31	949	940	948	948	947	956	939	885	799	713	688	739	—
Hourly Means.		923	931	933	936	939	943	930	886	821	764	727	697	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MAY.	1	717	675	662	733	784	847	877	876	892	917	925	933	840
	2	642	736	790	801	785	798	826	918	942	933	926	908	855
	3	679	681	664	685	708	730	789	815	835	849	864	886	820
	4	752	666	624	664	695	737	776	811	832	861	867	891	830
	5	677	631	704	725	792	835	834	854	869	893	900	907	827
	6	675	616	608	779	844	784	819	870	885	908	925	932	843
	7	681	711	711	675	725	843	903	885	877	893	893	917	838
	8	642	697	697	730	750	783	815	841	869	901	908	917	829
	9	583	574	617	644	673	735	787	828	864	886	894	917	792
	10	615	657	684	694	712	776	830	866	888	903	909	933	824
	11	712	734	691	676	705	771	811	855	869	893	901	917	825
	12	679	654	678	701	699	786	826	833	854	877	900	907	831
	13	644	688	716	703	753	785	846	875	904	919	910	918	836
	14	686	685	694	692	746	778	803	859	888	903	918	933	821
	15	591	630	652	679	702	765	825	789	840	854	877	892	802
	16	631	661	650	671	734	793	842	855	902	942	950	942	824
	17	668	667	662	756	819	824	847	863	870	885	878	877	850
	18	621	610	681	710	707	756	810	837	880	895	878	885	799
	19	642	588	612	646	691	738	796	837	873	880	903	909	799
	20	643	656	658	717	735	732	783	817	852	896	888	886	805
	21	583	590	651	642	690	731	756	802	829	872	902	918	790
	22	599	622	784	790	761	817	852	888	880	887	902	886	829
	23	788	768	770	769	818	852	858	889	904	919	926	942	887
	24	648	686	737	772	770	817	852	911	904	910	940	940	851
	25	777	752	715	706	819	847	838	851	858	864	864	909	878
	26	779	772	771	743	761	793	858	865	871	909	926	917	850
	27	878	908	925	926	925	925	941	949	958	958	958	957	915
	28	683	813	798	841	902	908	917	949	948	948	948	957	894
	29	766	750	774	800	799	828	842	870	901	916	932	932	868
	30	702	730	758	756	763	815	865	880	910	926	933	941	861
	31	752	739	881	895	906	897	865	903	926	901	925	941	874
Hourly Means		682	689	710	733	764	801	835	863	883	900	909	918	838

DIRECTION OF THE WIND.

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	NNE	C	C	C	NNE	NNE	S	W	NW	NNE
2	C	SSW	SSW	C	C	C	SSW	SW	WSW	WSW	WNW	W
3	C	C	C	C	C	SW	SW	WNW	W	WNW	NW	W
4	NW	WNW	SW	C	C	C	C	W	WNW	WNW	WSW	WSW
5	W	W	W	W	W	W	W	NW	NW	WSW	WSW	NW
6	WNW	WNW	C	C	C	C	WNW	WSW	WSW	W	W	WSW
7	WNW	C	C	C	C	C	WNW	C	W	W	NNW	NW
8	C	C	C	C	C	C	C	C	SE	E	NE	NE
9	S	S	S	S	S	S	S	C	SE	E	E	NE
10	C	NE	NE	C	C	C	NE	SSE	S	E	NNW	NNE
11	NNE	NNE	NE	NE	NE	NE	NE	S	ESE	ENE	ESE	E
12	C	SW	C	SW	SW	SW	SW	SW	ESE	E	ENE	NNE
13	C	S	S	S	S	C	S	S	S	E	ESE	E
14	NE	NE	NE	NE	C	C	NE	SE	ESE	SE	ESE	ESE
15	C	C	C	C	C	C	ENE	S	ESE	ESE	SE	E
16	SW	SW	C	C	C	C	C	SW	SW	WNW	W	NNE
17	ESE	ESE	ESE	ESE	ESE	ESE	ESE	C	ESE	ESE	ESE	E
18	SE	SE	SE	SSE	SSE	S	SSE	SE	SE	ESE	SE	E
19	S	S	S	S	S	S	S	S	E	E	E	E
20	C	C	ESE	SE	S	S	S	SSW	SW	ENE	SE	E
21	ENE	ENE	E	E	E	E	E	ESE	SSW	SE	E	ENE
22	E	SE	SE	SE	C	C	ESE	ESE	ESE	E	SE	E
23	ESE	C	C	C	C	SE	E	E	SE	E	ESE	SE
24	ENE	C	C	C	ENE	ENE	E	SE	SE	ENE	NE	NNE
25	WNW	W	SSW	C	SSW	SSW	C	C	SSW	SSW	SE	SW
26	C	C	C	C	C	NW	WNW	WNW	NE	E	E	E
27	C	NNE	NNE	NNE	NNE	NNE	NNE	NNE	S	S	NNW	NNE
28	C	SW	C	C	C	C	C	C	SW	SW	NW	NNE
29	C	C	C	C	C	C	C	C	W	NW	NW	NW
30	C	C	C	C	C	C	C	NW	NNE	S	S	W
31	NW	C	NW	C	C	C	C	NW	NW	N	NNE	NNE

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
1	N	NNE	NNE	NNW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
2	WNW	NW	WNW	W	WSW	WSW	SW	SW	C	C	C	SW
3	WSW	WSW	W	WNW	NW	NW	NW	NW	NW	WNW	WNW	NW
4	WSW	SW	W	WNW	W	WNW	W	W	W	C	C	W
5	WNW	W	W	WSW	WSW	WSW	W	WNW	WNW	WNW	WNW	C
6	NW	W	W	NW	NW	WNW	C	C	C	WNW	C	WNW
7	N	NNE	NE	NNE	NE	E	E	SE	SE	SE	SE	C
8	E	NE	NE	N	NNE	NNE	NNE	ESE	SSE	S	S	S
9	NE	NE	NE	NNE	NE	NE	C	C	C	C	C	C
10	NE	NNE	N	NE	NNE	C	C	C	C	C	C	C
11	NNE	NNE	NE	N	NE	SW	SW	SW	C	SW	C	C
12	NE	N	N	N	SW	SSW	S	S	S	S	S	S
13	ENE	ENE	NE	N	NNE	NE	C	C	C	C	C	NE
14	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	C	C	C	C
15	ENE	NNE	NNE	NE	NNE	NNE	NNE	SW	SW	SW	SW	SW
16	NNE	N	NNE	N	N	W	W	W	SW	SSE	S	SE
17	ESE	E	E	E	E	SE	SE	ESE	ESE	E	E	SE
18	ESE	ENE	NE	NE	NNE	NE	NE	ENE	ENE	ENE	S	S
19	ENE	E	ENE	E	ESE	ESE	ESE	ESE	ESE	C	C	C
20	SE	E	NE	NNE	NE	ENE	E	ENE	ENE	ENE	ENE	ENE
21	ENE	N	NE	NNE	E	E	E	E	C	C	E	E
22	E	E	ESE	E	E	E	C	C	C	C	E	SE
23	SE	SE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
24	NNE	NNE	N	N	NE	NE	C	C	NE	NE	NNW	NW
25	W	WSW	NW	NW	NW	NW	NW	NW	NW	C	C	C
26	E	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	C
27	W	WSW	WSW	WSW	SW	C	C	C	C	SW	C	C
28	W	WSW	W	W	WSW	W	C	C	C	W	W	W
29	N	NNW	NNE	NNE	NNE	N	N	NW	C	C	C	C
30	WNW	NNE	N	NNW	NW	C	C	C	C	C	C	C
31	NNE	N	N	N	C	C	N	C	C	NNW	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	0.0	0.8	0.0	0.0	0.0	0.8	1.6	4.8	3.2	4.8	9.7	—
2	0.0	0.8	0.8	0.0	0.0	0.0	1.6	3.2	5.6	6.4	6.4	10.5	—
3	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.0	5.6	8.0	9.7	7.2	—
4	0.8	2.4	1.6	0.0	0.0	0.0	0.0	1.6	3.2	1.6	4.0	4.0	—
5	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4	3.2	4.8	4.8	6.4	—
6	1.6	0.8	0.0	0.0	0.0	0.0	1.6	2.4	3.2	3.2	4.0	4.8	—
7	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.4	3.2	4.8	4.0	—
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.4	7.2	8.0	—
9	0.8	0.8	1.6	1.6	1.6	0.8	1.6	0.0	3.2	5.6	7.2	8.9	—
10	0.0	0.8	0.8	0.0	0.0	0.0	1.6	4.8	4.8	4.8	5.6	8.0	—
11	1.6	1.6	0.8	0.8	0.8	0.8	2.4	3.2	4.8	7.2	4.8	8.9	—
12	0.0	1.6	0.0	0.8	1.6	1.6	1.6	0.8	3.2	4.0	4.8	5.6	—
13	0.0	0.8	1.6	0.8	1.6	0.0	1.6	0.8	5.6	10.5	11.3	11.3	—
14	2.4	0.8	1.6	0.8	0.0	0.0	2.4	6.4	8.9	9.7	10.5	11.3	—
15	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.0	9.7	12.1	11.3	11.3	—
16	0.8	1.6	0.0	0.0	0.0	0.0	0.0	1.6	2.4	1.6	3.2	5.6	—
17	1.6	2.4	0.8	3.2	2.4	2.4	0.8	0.0	0.8	1.6	6.4	12.9	—
18	1.6	4.8	9.7	4.0	4.8	3.2	6.4	8.0	12.1	13.7	10.5	12.9	—
19	0.8	0.8	1.6	1.6	0.8	0.8	1.6	5.6	10.5	13.7	16.1	17.7	—
20	0.0	0.0	0.8	3.2	1.6	1.6	5.6	4.8	4.0	7.2	11.3	8.9	—
21	0.8	1.6	1.6	0.8	0.8	0.8	0.8	2.4	3.2	4.0	6.4	11.3	—
22	0.8	1.6	0.8	0.8	0.0	0.0	1.6	1.6	2.4	6.4	9.7	11.3	—
23	1.6	0.0	0.0	0.0	0.0	4.0	6.4	4.0	6.4	6.4	7.2	7.2	—
24	0.8	0.0	0.0	0.0	1.6	0.8	2.4	3.2	5.6	6.4	6.4	8.0	—
25	1.6	7.2	4.8	0.0	0.8	0.8	0.0	0.0	0.8	2.4	2.4	4.8	—
26	0.0	0.0	0.0	0.0	0.0	1.6	0.8	3.2	5.6	5.6	5.6	4.8	—
27	0.0	0.8	1.6	1.6	1.6	3.2	4.0	3.2	2.4	1.6	5.6	6.4	—
28	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	5.6	—
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.4	4.8	3.2	—
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2	2.4	3.2	—
31	0.8	0.0	0.8	0.0	0.0	0.0	0.0	2.4	1.6	1.6	3.2	2.4	—
Hourly Means.	0.65	1.11	1.06	0.67	0.67	0.77	1.68	2.48	4.32	5.49	6.63	7.94	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	11.3	8.0	8.0	7.2	9.7	4.0	2.4	1.6	0.8	0.8	0.8	0.8	3.38
2	8.0	10.5	10.5	7.2	6.4	4.0	4.8	1.6	0.0	0.0	0.0	0.8	3.71
3	6.4	4.8	4.8	3.2	4.0	3.2	1.6	0.8	2.4	1.6	1.6	1.6	3.04
4	5.6	9.7	10.5	8.0	6.4	4.8	2.4	0.8	0.8	0.0	0.0	0.8	2.88
5	8.0	8.0	5.6	2.4	0.8	0.8	3.2	0.8	0.8	0.8	0.8	0.0	2.50
6	4.8	8.0	8.9	6.4	1.6	1.6	0.0	0.0	0.0	0.8	0.0	0.8	2.27
7	8.0	11.3	12.1	12.9	11.3	8.9	3.2	3.2	2.4	4.8	2.4	0.0	4.02
8	7.2	12.1	11.3	8.0	6.4	2.4	0.8	4.8	3.2	1.6	3.2	1.6	3.58
9	11.3	11.3	12.1	9.7	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.52
10	10.5	11.3	7.2	7.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.94
11	14.5	12.1	11.3	6.4	3.2	2.4	1.6	1.6	0.0	0.8	0.0	0.0	3.82
12	8.0	11.3	9.7	7.2	4.0	8.0	4.8	2.4	0.8	1.6	1.6	0.8	3.58
13	12.1	9.7	8.0	8.0	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.8	3.92
14	11.3	13.7	11.3	10.5	8.0	1.6	2.4	0.8	0.0	0.0	0.0	0.0	4.77
15	12.1	12.9	11.3	11.3	8.0	1.6	1.6	5.6	1.6	0.8	0.8	2.4	5.03
16	9.7	10.5	9.7	8.0	6.4	3.2	3.2	3.2	4.8	4.8	3.2	3.2	3.61
17	14.5	15.3	14.5	11.3	12.1	7.2	7.2	8.0	4.8	4.8	4.0	3.2	5.93
18	12.1	12.1	9.7	10.5	8.0	4.0	1.6	1.6	1.6	3.2	3.2	1.6	6.70
19	16.9	19.3	16.1	16.1	6.4	4.0	1.6	0.8	0.8	0.0	0.0	0.0	6.40
20	10.5	8.9	9.7	8.0	8.9	6.4	4.8	1.6	0.8	0.8	0.8	1.6	4.66
21	13.7	11.3	8.0	6.4	7.2	4.8	4.0	1.6	0.0	0.0	0.8	1.6	3.91
22	14.5	12.9	9.7	9.7	6.4	0.8	0.0	0.0	0.0	0.0	1.6	4.8	4.06
23	6.4	4.8	6.4	4.8	0.8	1.6	2.4	0.8	0.8	1.6	0.8	0.8	3.13
24	10.5	6.4	4.8	6.4	5.6	0.8	0.0	0.0	0.8	4.8	8.9	4.8	3.71
25	4.8	4.8	4.8	3.2	3.2	3.2	1.6	1.6	0.8	0.0	0.0	0.0	2.23
26	0.8	4.8	8.0	7.2	7.2	1.6	1.6	3.2	2.4	2.4	1.6	0.0	2.83
27	5.6	1.6	3.2	2.4	2.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	2.00
28	9.7	3.2	4.8	3.2	1.6	1.6	0.0	0.0	0.0	2.4	1.6	1.6	1.84
29	6.4	9.7	6.4	4.0	4.0	1.6	1.6	0.8	0.0	0.0	0.0	0.0	1.94
30	6.4	8.0	8.0	7.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.97
31	8.0	8.0	9.7	1.6	0.0	0.0	0.8	0.0	0.0	1.6	0.0	0.0	1.77
Hourly Means.	9.34	9.56	8.91	7.28	5.48	2.82	1.91	1.52	0.98	1.32	1.22	1.08	3.54

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MAY.	1	3	2	2	1	2	3	3	2	2	4	8	7	—
	2	4	5	5	5	6	6	9	8	7	7	6	5	—
	3	9	9	9	9	8	10	10	8	9	8	7	7	—
	4	9	6	10	6	10	9	9	9	10	10	8	8	—
	5	1	1	0	2	4	10	7	5	4	9	9	10	—
	6	4	4	3	4	6	9	10	10	10	10	10	10	—
	7	10	10	8	9	7	6	7	7	5	5	6	3	—
	8	3	3	4	2	1	5	5	5	4	3	4	6	—
	9	5	5	4	3	5	5	1	2	4	5	5	4	—
	10	2	1	1	0	0	2	1	0	6	2	9	6	—
	11	3	4	2	5	3	4	3	0	3	4	5	3	—
	12	2	2	3	3	5	7	6	8	9	9	9	9	—
	13	2	3	3	2	2	3	5	5	5	6	8	6	—
	14	6	9	9	9	7	7	6	2	2	7	6	7	—
	15	5	5	3	6	6	2	1	1	0	3	1	0	—
	16	5	4	4	6	5	7	7	4	4	5	5	7	—
	17	10	10	10	9	10	10	10	10	10	10	9	9	—
	18	10	9	10	10	10	10	7	6	3	7	7	5	—
	19	2	1	2	3	1	4	2	1	1	1	1	3	—
	20	5	3	5	9	10	10	10	10	8	6	7	9	—
	21	5	4	3	4	7	8	4	3	3	4	4	4	—
	22	2	5	4	4	4	3	4	7	8	6	6	8	—
	23	10	2	2	2	8	10	10	9	10	10	10	10	—
	24	9	6	6	7	4	6	8	9	7	7	7	5	—
	25	10	10	10	10	10	10	10	8	10	10	10	10	—
	26	2	1	6	4	5	7	9	10	10	10	10	10	—
	27	3	2	5	4	4	6	7	4	4	7	10	10	—
	28	9	7	2	2	2	8	10	9	8	6	6	5	—
	29	7	10	10	8	10	10	10	8	8	8	9	9	—
	30	3	3	4	3	3	4	6	5	7	4	4	6	—
	31	3	2	2	1	2	3	3	3	4	4	6	9	—
Hourly Means.		5.3	4.8	4.9	4.9	5.4	6.6	6.5	5.7	6.0	6.4	6.8	6.8	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
MAY.	1	5	4	6	7	9	9	7	10	10	9	3	2	5.0
	2	5	8	10	10	10	10	10	10	10	10	10	10	7.8
	3	4	7	7	9	9	9	6	6	8	9	10	10	8.2
	4	9	6	4	5	8	7	4	3	2	2	1	0	6.5
	5	10	10	10	9	10	10	10	10	10	9	9	6	7.3
	6	6	5	7	10	10	10	10	10	10	10	10	10	8.3
	7	4	4	4	3	9	10	10	10	10	10	10	10	7.4
	8	5	4	3	6	6	8	9	9	9	8	6	4	5.1
	9	2	1	0	0	0	3	2	2	3	4	3	2	2.9
	10	7	7	5	4	3	3	1	4	3	4	4	5	3.3
	11	6	4	3	1	9	10	3	4	3	2	1	2	3.6
	12	4	3	3	4	4	5	9	10	10	10	7	7	6.2
	13	7	8	8	7	6	4	3	2	3	4	6	8	4.8
	14	9	8	9	8	7	3	5	5	4	3	3	4	6.0
	15	2	2	4	3	3	3	7	9	8	7	7	7	4.0
	16	8	6	4	3	6	8	9	9	10	10	10	10	6.5
	17	10	9	9	10	10	9	7	10	10	10	9	10	9.6
	18	4	5	4	4	6	7	5	3	1	3	2	4	5.9
	19	5	2	2	6	5	9	10	7	4	3	3	4	3.4
	20	2	3	2	3	5	8	5	6	6	6	5	7	6.3
	21	4	2	5	4	6	7	3	2	1	2	2	2	3.9
	22	5	8	10	10	9	9	6	6	4	6	4	6	6.0
	23	10	10	10	9	9	10	5	4	8	8	9	8	8.0
	24	8	5	5	5	3	2	2	1	7	9	10	10	6.2
	25	8	7	6	5	6	9	9	4	8	6	5	4	8.1
	26	10	10	8	6	5	5	7	7	2	2	6	2	6.4
	27	10	10	10	10	10	10	7	6	8	8	7	5	7.0
	28	4	8	9	10	9	10	9	7	9	10	10	10	7.5
	29	10	9	9	10	10	10	4	3	3	2	3	2	7.6
	30	7	9	9	9	8	9	9	7	6	4	3	3	5.6
	31	8	10	10	7	6	5	2	3	1	1	2	3	4.2
Hourly Means.		6.4	6.3	6.3	6.4	7.0	7.5	6.3	6.1	6.2	6.2	5.8	5.7	6.10

MAY.

Mean Batavia Time.	8—8½ A M.	8½—9	9—9½	9½—10	10—10½	10½—11	11—11½	11½—12	12—12½ P. M.	12½—1	1—1½	1½—2	2—2½	2½—3	3—3½	3½—4	Daily and Monthly Means.
1	10	9	10	10	6	7	0	6	7	6	10	10	10	4	1	1	6.7
2	9	10	10	10	9	8	9	9	10	8	8	5	2	0	0	1	6.8
3	8	0	2	5	7	9	8	6	7	10	8	7	7	7	0	0	5.7
4	0	0	0	0	0	0	0	0	0	0	0	3	8	8	10	9	2.4
5	10	8	4	6	0	1	1	0	2	2	0	2	1	1	0	0	2.4
6	0	0	0	1	2	1	1	2	3	6	7	8	10	7	0	0	3.0
7	7	10	10	10	10	10	9	10	8	3	10	10	10	9	10	10	9.1
8	8	9	10	10	10	10	9	10	9	5	8	10	10	9	7	0	8.4
9	10	10	10	10	8	10	10	10	9	10	10	10	10	10	10	10	9.8
10	10	9	5	10	7	8	3	4	9	10	5	3	7	10	10	10	7.5
11	10	10	10	9	9	4	7	6	7	10	6	2	9	10	10	10	8.1
12	5	3	4	5	3	3	3	2	4	8	9	10	10	10	10	10	6.2
13	1	3	5	8	10	10	7	6	7	8	7	6	7	2	2	7	6.0
14	10	10	10	7	6	7	8	7	4	2	3	4	4	4	3	2	5.7
15	10	10	10	10	10	9	9	9	10	9	8	9	8	10	9	10	9.4
16	7	10	10	10	8	10	10	8	3	5	2	9	9	10	7	7	7.8
17	0	0	0	0	0	3	2	2	7	3	1	1	6	5	0	0	1.9
18	0	7	8	9	5	6	8	10	9	7	7	6	10	8	8	10	7.4
19	10	10	10	9	10	10	10	7	7	8	10	10	10	10	9	7	9.2
20	4	5	6	7	10	10	8	5	0	3	8	9	9	9	10	5	6.8
21	6	10	10	10	10	10	10	10	10	10	10	10	9	5	2	10	8.9
22	5	0	4	8	8	8	7	6	7	8	8	6	2	1	0	0	4.9
23	0	0	2	3	0	0	0	0	0	0	1	1	6	0	0	6	1.2
24	4	7	8	4	7	6	3	2	8	8	2	5	1	2	7	6	5.0
25	0	0	0	0	0	0	0	1	3	4	3	7	9	8	7	1	2.7
26	1	7	5	8	8	1	7	2	1	0	0	0	0	7	9	10	4.1
27	10	9	9	6	6	5	0	0	0	1	0	0	0	0	0	0	2.9
28	2	3	3	8	8	10	8	6	10	8	3	3	0	0	0	0	4.5
29	6	6	5	7	3	0	2	1	0	0	3	6	6	1	0	0	2.9
30	3	5	4	9	8	5	3	4	2	6	6	6	1	1	1	0	4.0
31	9	10	10	7	4	6	3	1	0	3	8	4	0	0	1	9	4.7
Means.	5.6	6.1	6.3	7.0	6.2	6.0	5.3	4.9	5.3	5.5	5.5	5.9	6.2	5.4	4.6	4.9	5.67

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

MAY.

Mean Batavia Time.	7h30 A. M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	33.5	43.6	44.2	49.1	51.8	55.9	40.4	49.2	40.5	55.9	52.5	50.9	52.6	55.9	56.4	44.9	38.8	36.4	30.4
2	34.6	42.3	42.0	44.9	48.5	47.9	50.4	54.0	51.6	54.8	55.9	53.8	51.0	43.4	42.6	33.9	31.8	32.0	34.9
3	28.8	47.8	38.4	38.2	47.0	50.4	53.5	53.0	49.2	50.0	49.1	52.3	51.2	48.2	55.2	53.3	41.0	36.7	36.0
4	28.5	33.9	39.1	35.3	33.8	34.4	42.6	42.8	43.9	41.9	43.1	39.9	44.3	54.9	51.6	53.7	52.9	50.1	35.8
5	32.3	40.4	42.5	46.9	47.9	43.0	39.4	45.9	46.9	45.9	50.9	45.2	45.9	46.4	44.3	36.4	32.3	28.9	28.3
6	25.7	28.4	30.8	34.4	37.1	41.9	43.3	42.9	44.4	46.4	46.8	52.4	53.7	54.4	53.4	44.4	—	—	30.0
7	32.2	38.6	46.9	51.1	49.5	53.7	51.9	54.2	53.7	54.8	49.6	52.3	53.7	53.8	52.6	50.7	49.8	48.1	37.8
8	32.0	37.6	37.6	43.4	45.6	53.9	48.9	55.4	49.8	51.9	47.6	45.4	52.9	53.4	54.0	53.6	48.4	34.7	34.0
9	37.3	—	48.5	—	51.6	—	51.4	—	54.5	55.4	54.9	53.7	54.4	53.5	53.0	51.5	50.1	48.4	36.4
10	36.4	44.4	46.9	41.9	53.9	53.4	53.9	40.9	43.3	54.4	56.6	55.1	43.7	46.6	47.6	47.9	47.0	45.9	33.9
11	36.5	44.9	46.4	49.4	50.4	55.9	43.4	47.4	55.5	52.9	50.4	53.4	42.4	43.4	47.5	50.4	49.4	47.9	39.4
12	30.8	35.6	39.6	42.2	47.6	45.3	44.7	45.0	42.8	43.6	47.4	53.9	54.9	52.9	49.5	50.4	49.5	48.3	36.8
13	26.0	29.6	32.6	40.6	45.9	49.2	52.3	45.6	48.4	50.6	52.4	51.7	54.5	48.0	52.2	43.6	39.5	44.3	35.0
14	36.5	45.9	47.8	49.9	51.9	50.4	47.8	46.2	51.4	51.9	40.4	39.7	45.4	49.0	49.8	47.9	40.0	41.4	34.7
15	36.3	43.9	47.0	49.8	50.9	51.9	51.6	52.9	52.9	53.9	54.4	52.7	52.8	52.9	49.9	52.9	49.4	48.0	36.6
16	32.4	37.9	41.6	45.4	48.2	48.2	49.3	51.3	50.9	48.4	40.6	47.9	43.9	52.9	51.4	50.9	51.8	42.9	35.4
17	24.9	26.9	28.7	31.8	33.2	39.3	41.8	48.1	47.3	49.1	51.2	42.7	42.9	40.7	44.2	44.4	34.4	30.4	28.6
18	35.4	32.4	33.6	48.6	50.3	48.6	45.1	52.9	53.8	54.4	53.6	51.3	54.6	49.9	53.5	53.4	46.4	48.3	37.4
19	35.6	43.9	45.9	49.3	47.9	51.4	52.0	52.3	52.6	50.9	51.8	51.6	52.6	51.9	52.1	51.0	50.1	46.8	35.9
20	35.2	36.4	40.0	45.4	44.2	51.9	52.4	51.9	51.1	41.9	39.7	50.4	44.8	54.0	52.5	50.3	48.6	40.9	35.4
21	31.6	41.4	46.4	50.9	50.4	48.9	48.6	52.1	54.6	54.9	54.2	52.9	53.2	54.9	46.9	42.3	47.3	48.8	41.3
22	32.3	39.8	37.1	39.0	50.5	49.1	50.8	53.2	48.2	48.8	52.2	53.9	52.3	46.8	41.9	32.4	31.5	31.9	32.1
23	—	28.6	31.6	32.8	36.0	34.0	33.8	33.9	35.0	38.7	38.9	42.8	43.8	41.0	45.1	37.4	35.8	38.3	34.4
24	29.9	38.8	45.4	51.4	44.0	49.2	47.7	48.2	49.3	51.4	52.9	54.5	41.3	39.3	36.9	38.6	39.8	38.7	34.0
25	25.8	30.0	32.0	29.9	28.7	32.9	35.9	37.4	40.4	41.9	51.5	45.4	44.4	51.4	50.4	50.0	47.8	34.9	31.0
26	30.4	32.8	38.4	40.4	44.2	48.9	42.3	44.9	46.4	41.6	39.9	39.9	40.1	39.3	40.4	41.0	39.4	45.5	36.4
27	39.9	44.5	44.8	47.9	42.6	44.2	47.4	—	—	—	—	—	—	30.3	29.2	28.2	28.2	28.2	27.5
28	26.4	29.4	34.0	39.1	45.6	52.6	48.0	48.6	54.1	55.5	54.4	54.4	41.4	34.0	33.3	33.4	30.6	27.4	26.2
29	26.9	34.0	35.9	39.9	47.0	41.4	39.9	48.6	46.6	42.4	41.2	33.4	44.3	50.2	43.2	36.3	34.0	31.9	30.8
30	26.4	31.5	34.4	36.4	36.9	48.9	45.5	48.9	46.3	50.4	46.6	52.2	51.4	49.5	40.2	38.9	37.4	34.4	34.4
31	40.4	47.4	49.9	50.4	51.4	39.4	48.0	51.9	42.0	39.4	36.6	45.9	56.0	43.4	35.9	—	—	—	35.0
Means.	32.03	37.75	40.32	43.19	45.63	47.20	46.58	48.26	48.25	49.13	48.58	49.05	48.68	47.94	46.99	44.80	42.17	40.01	34.06

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

MAY. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	16.5	21.8	15.9	15.9	14.8	14.2	13.0	8.3	7.1	10.6	3.5	1.8	—
2	15.9	15.9	19.5	15.9	11.8	11.2	8.9	7.7	6.5	4.1	0.6	1.8	—
3	13.0	18.9	18.9	17.7	19.5	13.0	10.6	18.3	0.0	— 4.1	5.3	4.7	—
4	13.6	12.4	15.3	10.6	13.6	10.0	9.4	8.3	4.7	4.1	4.1	3.5	—
5	13.6	14.2	12.4	18.3	16.5	18.3	22.4	11.2	10.0	4.7	4.7	3.5	—
6	13.0	12.4	10.6	10.6	11.2	9.4	12.4	15.9	10.6	10.0	5.3	4.1	—
7	12.4	19.5	13.0	16.5	22.4	26.6	21.8	15.9	13.0	5.3	2.4	3.5	—
8	12.4	9.4	12.4	8.3	8.3	10.0	14.2	9.4	9.4	3.5	3.5	3.0	—
9	5.9	8.3	8.3	8.3	5.3	5.9	10.0	—	—	—	—	—	—
10	—	—	—	—	—	—	—	6.5	3.5	2.4	— 0.6	— 0.6	—
11	28.3	26.6	17.7	20.7	11.2	10.6	8.9	8.9	4.1	2.4	3.0	1.2	—
12	21.2	15.9	21.8	18.9	15.3	8.3	14.8	9.4	10.0	1.2	0.6	0.0	—
13	15.3	21.8	15.3	15.9	9.4	12.4	17.7	15.3	8.9	1.8	0.6	— 1.8	—
14	11.8	8.3	26.0	10.0	10.0	11.8	15.9	6.5	3.5	1.8	1.2	0.0	—
15	20.1	21.8	20.7	16.5	21.2	18.9	26.0	10.0	5.3	2.4	1.8	3.0	—
16	14.2	15.9	14.8	14.8	16.5	11.8	11.8	15.9	9.4	5.9	4.7	1.2	—
17	7.7	8.3	9.4	10.0	5.9	7.1	10.0	13.0	8.3	7.7	3.5	0.6	—
18	15.3	13.6	10.6	32.5	13.6	7.7	10.0	9.4	8.9	5.3	5.9	4.7	—
19	10.0	15.3	27.1	25.4	16.5	18.9	24.2	13.6	7.1	3.0	4.1	1.2	—
20	15.3	14.8	26.0	10.6	10.6	12.4	6.5	10.0	7.1	1.8	1.8	2.4	—
21	7.1	9.4	7.1	6.5	8.9	8.9	7.7	—	—	2.4	3.0	2.4	—
22	14.8	14.8	11.2	11.8	11.8	10.6	15.9	7.7	6.5	2.4	4.1	4.1	—
23	N	18.9	26.0	25.4	26.0	1.8	P N	9.4	10.0	5.3	5.3	4.1	—
24	16.5	14.8	16.5	19.5	17.7	18.3	13.6	11.8	5.3	3.0	3.0	5.3	—
25	P N	P N	— 10.6	3.0	10.0	10.6	14.8	—	—	—	—	—	—
26	—	—	—	—	—	—	—	6.5	6.5	3.0	3.0	2.4	—
27	9.4	12.4	11.2	10.6	10.6	9.4	5.9	6.5	7.1	5.3	— 11.8	P N	—
28	14.8	11.8	13.0	13.0	15.9	15.3	19.5	17.7	9.4	5.3	4.1	4.1	—
29	10.6	11.8	13.6	—	—	—	13.6	14.2	10.0	4.1	—	1.8	—
30	10.6	14.2	13.0	11.2	10.0	10.6	15.9	—	—	—	—	1.8	—
31	10.6	10.0	15.3	11.2	8.9	8.9	10.0	3.5	1.8	1.2	0.6	0.6	—
Hourly Means.	13.7	14.8	14.9	14.6	13.3	11.9	13.8	10.8	7.2	3.8	2.5	2.3	—

MAY. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	— 13.0	3.0	5.3	23.0	33.6	20.7	10.6	5.3	11.8	10.6	14.8	12.4	11.7
2	4.7	2.4	15.9	24.8	28.3	P N	P N	— 7.1	21.8	18.3	20.1	10.6	11.8
3	3.0	3.0	2.4	N	4.7	7.7	10.6	10.6	10.6	14.2	15.9	20.1	10.4
4	5.3	4.7	4.7	5.3	7.1	10.0	17.1	18.9	12.4	11.2	12.4	10.0	9.5
5	4.7	1.8	3.0	11.8	9.4	20.1	13.6	11.8	13.6	13.0	11.2	12.4	11.5
6	3.0	— 2.4	3.0	N	15.9	12.4	11.8	13.0	11.8	14.8	15.9	12.4	10.3
7	4.7	5.3	5.9	— 11.8	P N	P N	18.3	10.0	9.4	8.3	8.3	7.7	10.8
8	3.0	3.0	1.8	3.0	4.1	— 3.5	4.1	— 3.0	5.3	7.1	7.1	5.3	5.9
9	—	—	—	—	—	—	—	—	—	—	—	—	7.4
10	1.8	1.2	1.2	— 2.4	1.8	7.1	8.9	14.8	9.4	19.5	27.7	33.6	8.0
11	2.4	3.0	3.5	9.4	17.1	7.1	8.9	10.0	13.6	11.8	12.4	18.9	10.9
12	0.6	1.2	— 0.6	2.4	3.0	11.8	24.8	13.6	6.5	14.2	14.8	13.6	10.1
13	0.6	— 1.2	0.6	— 1.8	— 0.6	3.0	7.1	7.1	13.6	15.3	18.3	11.2	8.6
14	— 1.2	— 1.8	— 0.6	— 0.6	1.8	3.0	8.3	11.8	15.9	19.5	14.2	20.1	8.2
15	2.4	1.2	1.8	— 4.1	— 1.8	4.1	15.9	14.8	5.9	8.9	11.2	15.3	10.1
16	3.0	2.4	1.2	10.0	4.7	1.8	P N	N	N	N	10.6	8.9	9.0
17	3.0	1.8	1.8	3.0	18.3	7.7	9.4	7.7	10.0	12.4	10.0	10.0	7.8
18	4.1	3.5	1.8	1.2	4.1	6.5	11.2	11.8	13.6	10.6	8.3	8.9	9.3
19	1.2	0.0	— 1.8	1.2	7.7	8.3	13.0	18.9	13.0	17.7	16.5	13.6	11.5
20	1.2	1.8	0.0	0.0	—	—	—	10.0	—	—	12.4	8.3	8.1
21	0.6	1.8	2.4	N	— 1.8	5.3	8.9	11.8	17.7	13.0	16.5	18.9	7.6
22	3.0	2.4	— 5.3	1.2	5.3	7.7	15.9	16.5	20.7	22.4	20.1	14.8	10.0
23	3.0	4.1	4.1	5.9	7.7	14.2	14.8	17.7	13.0	14.2	14.2	14.2	11.8
24	5.9	5.3	5.9	3.5	4.7	4.1	4.1	10.6	— 0.6	12.4	P N	P N	9.2
25	—	—	—	—	—	—	—	—	—	—	—	—	5.6
26	3.0	3.5	4.1	3.5	4.7	5.3	8.9	13.6	12.4	10.6	8.9	10.0	6.5
27	P N	35.4	5.3	7.7	9.4	10.6	13.0	10.6	5.3	8.3	11.8	15.9	9.5
28	5.9	5.9	9.4	P N	P N	P N	8.9	11.8	10.6	10.0	7.1	8.3	10.6
29	1.8	1.2	2.4	3.0	3.5	4.7	7.1	3.5	4.7	7.1	9.4	10.0	6.9
30	3.0	3.0	3.0	5.9	5.9	10.0	14.2	8.3	6.5	4.1	8.9	9.4	8.5
31	1.2	0.0	P N	P N	5.9	3.5	4.7	4.7	5.9	5.9	6.5	6.5	5.8
Hourly Means.	2.2	3.3	2.9	4.4	7.9	7.7	11.3	10.3	10.9	12.4	13.1	12.9	9.29

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	8.00	7.93	7.85	8.00	7.83	8.35	8.51	8.84	9.09	8.64	7.89	7.05	—
	2	8.04	8.00	8.01	7.24	7.34	7.75	8.21	8.19	8.21	8.40	8.01	7.36	—
	3	7.24	7.12	6.88	6.74	6.75	6.75	7.03	7.21	7.55	7.65	7.38	6.96	—
	4	6.89	6.45	6.36	6.79	6.82	7.49	7.65	8.05	8.29	8.15	7.92	7.21	—
	5	7.09	6.66	6.39	6.80	7.26	7.81	8.46	8.35	7.61	7.55	7.41	6.33	—
	6	7.39	7.01	6.98	6.44	6.71	6.74	7.12	7.99	8.39	8.35	7.97	7.44	—
	7	7.94	7.59	7.25	6.91	7.04	7.25	7.82	8.01	8.11	8.27	8.12	7.55	—
	8	7.88	7.26	6.90	6.92	6.94	7.54	7.87	8.36	8.70	8.25	7.79	7.02	—
	9	7.72	7.34	7.03	7.30	7.81	8.23	8.46	9.06	9.43	9.11	8.55	7.68	—
	10	8.41	8.21	8.04	8.06	8.53	8.89	9.37	9.85	9.93	9.68	9.45	8.57	—
	11	9.28	8.95	8.79	8.59	8.80	8.91	9.16	9.99	10.29	10.25	10.43	9.93	—
	12	10.50	9.75	9.47	9.50	9.66	9.67	9.94	10.79	11.00	10.95	10.60	10.09	—
	13	10.43	9.90	9.65	9.57	9.87	10.05	10.41	11.10	11.48	11.38	10.75	10.19	—
	14	10.63	10.19	9.52	9.39	9.41	9.40	9.89	9.86	10.55	10.55	10.23	9.31	—
	15	9.93	9.45	8.78	8.80	8.96	8.96	9.08	9.33	9.76	9.79	9.64	9.07	—
	16	7.49	7.24	7.15	7.21	7.44	7.44	8.00	8.39	8.50	8.50	8.20	7.55	—
	17	9.49	9.44	9.08	8.51	8.60	8.41	8.60	9.41	9.73	9.68	9.83	9.71	—
	18	9.73	9.15	8.65	8.36	8.65	8.96	9.69	10.26	10.46	10.23	9.68	8.89	—
	19	8.85	8.72	8.33	8.44	8.66	8.86	9.28	9.73	9.93	9.88	9.56	8.98	—
	20	9.16	8.79	8.52	8.58	8.74	9.05	9.43	9.81	9.77	9.64	9.30	8.60	—
	21	8.68	8.04	8.05	7.98	8.20	8.53	9.05	9.64	9.69	9.50	8.96	8.43	—
	22	9.54	9.49	8.84	8.76	8.98	9.49	9.71	10.15	10.49	10.28	9.79	9.12	—
	23	8.90	8.66	8.31	8.31	8.46	8.81	9.31	9.64	9.79	9.46	9.50	8.94	—
	24	9.24	8.86	8.33	8.44	8.76	8.76	8.87	9.22	9.28	9.13	8.59	8.18	—
	25	8.98	8.53	8.14	8.14	8.60	8.74	8.85	9.50	9.66	9.63	9.39	8.81	—
	26	9.08	8.91	8.53	8.44	8.80	9.30	9.76	10.39	10.72	10.46	10.07	9.22	—
	27	9.85	9.35	8.90	8.75	8.86	9.39	9.86	10.49	10.66	10.70	10.63	10.37	—
	28	9.75	9.36	9.15	8.96	9.06	9.17	9.89	10.32	10.56	10.38	10.21	9.61	—
	29	10.79	10.10	9.76	9.36	9.44	9.80	10.17	10.51	11.10	10.95	10.70	10.28	—
	30	10.49	10.29	9.85	9.82	9.69	9.90	10.06	10.69	10.90	10.98	10.69	10.40	—
Hourly Means.		8.91	8.56	8.25	8.17	8.36	8.61	8.98	9.44	9.65	9.55	9.24	8.63	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	6.67	6.29	5.93	5.53	6.31	6.87	7.78	8.29	8.65	9.23	9.16	8.73	7.81
	2	6.52	5.71	6.07	6.27	6.49	6.78	7.13	7.58	7.98	7.85	7.93	7.74	7.45
	3	6.42	5.71	5.75	5.92	6.39	6.55	6.87	7.10	7.43	7.55	7.33	6.96	6.89
	4	6.50	5.72	5.72	5.78	6.21	6.48	6.85	7.59	8.00	7.78	7.64	7.37	7.07
	5	5.62	5.36	5.26	5.29	5.41	5.73	6.58	7.30	7.89	7.92	7.85	7.67	6.90
	6	7.10	6.86	6.32	6.58	6.79	7.04	7.54	7.79	7.95	8.25	8.16	8.24	7.38
	7	6.82	6.22	5.97	6.10	6.47	7.20	7.77	8.24	8.49	8.83	8.58	8.60	7.55
	8	6.42	5.85	5.31	5.37	5.65	6.42	6.75	7.29	7.80	7.99	7.84	7.73	7.16
	9	7.03	6.37	6.22	6.26	6.58	7.25	7.62	8.13	8.68	8.75	8.87	8.84	7.85
	10	7.96	7.31	6.93	7.08	7.21	8.27	8.90	9.49	9.96	10.21	10.03	9.74	8.75
	11	9.37	8.85	8.88	8.84	9.41	9.66	10.23	11.35	11.50	11.15	10.61	10.63	9.74
	12	9.42	8.70	8.37	8.62	9.41	10.44	10.56	10.84	10.99	11.35	11.36	11.06	10.13
	13	9.40	8.37	7.90	8.11	8.41	8.65	9.49	10.13	10.80	10.72	10.96	10.80	9.94
	14	8.77	8.13	7.63	7.69	8.31	8.85	8.98	9.53	10.10	10.58	10.71	10.14	9.51
	15	8.39	7.83	7.41	7.51	7.65	7.70	8.08	8.18	8.30	8.18	7.95	7.81	8.61
	16	6.99	6.68	6.50	6.59	6.58	7.20	7.50	8.11	8.73	9.23	9.24	9.23	7.74
	17	9.42	8.73	8.29	8.21	8.41	8.63	8.83	9.40	9.79	9.71	9.73	9.79	9.14
	18	8.33	7.75	7.51	7.49	7.82	8.35	8.86	9.20	9.74	9.83	9.68	9.39	9.03
	19	8.26	7.50	7.26	7.22	7.41	8.01	8.50	9.12	9.43	9.35	9.39	9.28	8.75
	20	7.93	7.28	7.02	6.82	7.36	8.27	8.46	8.66	8.84	9.03	9.04	8.95	8.63
	21	7.81	7.08	6.82	7.08	7.30	8.32	8.45	8.95	9.51	9.58	9.62	9.64	8.54
	22	8.12	7.42	6.92	6.79	7.32	8.39	8.73	8.97	9.21	9.59	9.70	9.41	8.97
	23	8.47	7.72	7.77	7.59	7.85	8.42	9.07	9.39	9.53	9.64	9.62	9.25	8.85
	24	7.68	7.05	6.71	6.78	7.40	7.93	8.72	9.23	9.15	9.49	9.47	9.35	8.53
	25	8.30	7.54	7.14	7.29	7.63	7.95	8.68	9.25	9.88	10.03	9.98	9.70	8.76
	26	8.98	8.50	8.22	8.40	8.75	8.55	8.79	9.49	9.95	10.41	10.16	10.26	9.34
	27	9.55	8.89	8.54	8.44	8.49	8.52	8.86	9.61	10.20	10.38	10.26	10.18	9.57
	28	9.07	8.42	8.25	8.07	8.70	9.54	9.94	10.55	10.97	11.09	10.96	11.13	9.71
	29	9.90	9.35	8.94	8.99	9.29	9.45	9.74	10.01	9.99	10.36	10.48	10.54	10.00
	30	9.73	8.74	8.03	8.04	8.45	8.84	9.40	10.10	10.61	10.53	10.53	10.13	9.87
Hourly Means.		8.03	7.40	7.12	7.16	7.52	8.01	8.46	8.96	9.34	9.48	9.43	9.28	8.61

STANDARD THERMOMETER.

JUNE.

Mean Batavia Time:	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	77.1	76.7	76.7	76.6	76.1	75.2	76.0	78.0	80.1	83.2	85.3	87.4	—
2	75.9	75.8	75.3	75.2	75.0	75.0	75.4	76.7	79.8	82.0	83.3	84.7	—
3	77.0	77.5	77.2	77.2	76.2	75.7	76.3	78.3	80.1	81.7	83.4	84.1	—
4	78.4	78.0	77.4	76.9	76.3	76.3	76.5	77.3	78.3	80.0	82.3	84.0	—
5	76.3	76.0	75.5	75.2	75.2	75.5	75.2	76.0	78.7	80.4	83.2	85.3	—
6	78.8	78.5	78.5	77.7	77.2	76.7	77.0	79.0	80.6	81.6	81.1	80.6	—
7	76.3	76.0	75.5	75.0	74.8	74.4	74.6	76.2	79.0	81.8	84.0	85.6	—
8	74.0	73.6	73.1	72.7	73.1	73.0	73.4	75.1	78.0	81.1	84.0	85.9	—
9	76.6	76.1	75.7	75.4	75.0	75.0	75.1	76.6	79.6	82.2	85.0	86.3	—
10	79.0	78.6	78.4	78.0	77.4	76.9	77.1	80.2	82.9	85.1	86.0	87.7	—
11	75.4	75.4	75.2	74.8	74.6	74.8	75.0	77.3	79.7	82.0	83.1	84.0	—
12	74.0	74.0	73.7	73.8	73.6	73.7	74.3	76.7	79.0	81.7	83.5	84.9	—
13	75.1	74.7	74.5	74.3	73.8	73.6	73.8	75.0	79.5	82.0	83.5	85.1	—
14	77.9	77.6	76.8	76.4	76.0	75.3	75.1	77.3	80.7	82.9	84.9	86.5	—
15	76.0	75.8	75.6	75.4	75.0	75.0	75.0	76.0	78.0	79.9	81.0	82.1	—
16	76.1	75.7	75.5	75.0	74.6	74.2	75.0	76.6	79.0	82.0	82.7	84.5	—
17	76.7	75.9	74.0	73.2	73.5	73.3	73.7	75.1	77.0	79.0	79.5	81.2	—
18	77.3	76.6	75.6	75.0	74.7	74.0	74.6	76.6	79.2	81.0	83.3	83.5	—
19	77.0	76.8	76.8	76.5	76.5	76.0	76.6	77.6	81.0	83.3	83.1	85.7	—
20	77.5	77.1	76.8	76.5	76.3	76.1	76.2	77.2	79.1	82.8	84.1	85.8	—
21	77.3	77.1	76.7	76.3	75.9	75.1	75.6	78.0	81.0	83.5	86.0	87.4	—
22	76.4	76.1	75.8	75.6	75.1	74.9	75.1	77.0	80.0	82.8	84.2	83.4	—
23	75.4	75.4	75.2	75.2	75.0	75.0	75.9	77.1	80.1	81.0	82.0	82.6	—
24	75.1	74.9	74.6	74.4	74.2	74.0	74.1	76.1	78.1	80.0	82.5	84.3	—
25	76.1	76.1	76.1	75.9	76.0	76.0	76.0	77.2	79.6	81.3	83.6	85.0	—
26	76.5	76.3	76.2	75.8	75.6	75.3	76.0	78.2	80.0	81.7	83.7	85.0	—
27	74.5	74.5	74.5	74.4	74.0	73.8	74.0	76.2	78.0	80.2	82.2	82.5	—
28	75.8	75.0	74.5	74.0	73.9	74.2	74.5	76.4	79.0	81.7	84.0	85.7	—
29	75.3	75.0	75.0	74.8	74.5	74.2	74.1	75.3	77.0	78.3	79.8	80.0	—
30	75.2	75.2	75.0	75.0	75.0	74.5	74.8	75.2	76.7	78.0	78.5	78.6	—
Hourly Means.	76.33	76.07	75.71	75.41	75.14	74.89	75.20	76.85	79.29	81.47	83.09	84.31	—

JUNE.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	88.0	88.6	88.8	88.3	85.2	83.6	81.6	80.1	77.4	76.5	76.3	76.3	80.80
2	85.5	86.0	84.4	82.9	81.9	80.7	79.1	77.9	78.0	78.0	77.3	77.0	79.28
3	85.2	85.1	82.8	83.0	82.2	80.8	80.2	79.4	79.2	79.0	79.0	79.2	79.99
4	85.3	85.0	84.7	83.0	82.1	80.4	79.2	78.2	77.9	77.6	77.1	76.3	79.52
5	87.0	88.4	89.0	88.0	86.5	85.0	83.4	82.1	81.0	80.6	80.0	79.4	80.95
6	79.6	80.0	78.4	76.5	76.7	76.4	76.6	76.6	76.6	76.6	76.2	76.0	78.06
7	86.3	86.8	86.0	86.4	84.0	80.0	77.8	77.8	76.7	75.9	75.1	74.7	79.20
8	87.6	87.0	86.6	84.7	84.6	83.3	82.6	81.2	79.9	78.8	78.2	77.2	79.53
9	87.0	87.5	87.1	86.2	85.0	83.6	82.2	81.0	80.7	79.7	79.5	79.1	80.72
10	86.5	88.0	87.1	86.5	85.7	84.5	78.9	77.5	77.0	77.6	76.9	76.3	81.24
11	84.1	83.2	82.0	77.9	78.0	77.5	76.7	75.0	74.5	74.6	74.4	74.3	77.65
12	86.0	86.2	85.4	85.0	84.3	77.3	76.2	75.6	75.9	75.3	75.2	75.0	78.35
13	86.4	86.7	85.2	84.1	83.5	82.3	81.7	81.0	80.7	79.1	78.2	78.0	79.66
14	85.2	84.6	84.1	84.4	84.0	82.6	81.3	80.8	80.0	78.0	76.6	76.1	80.21
15	82.8	82.0	82.5	81.3	80.6	79.9	78.7	78.1	77.7	77.0	76.7	76.5	78.28
16	85.0	83.8	82.3	81.0	81.2	80.6	80.0	79.6	79.0	78.3	77.9	77.0	79.03
17	83.0	82.2	82.0	83.0	82.6	81.1	80.4	79.9	79.3	78.8	78.4	78.0	78.37
18	83.3	86.0	85.8	84.8	83.9	82.4	81.2	80.0	79.0	78.5	78.0	77.5	79.66
19	86.0	87.0	86.3	85.5	84.3	83.2	82.3	81.0	80.2	79.2	78.3	78.0	80.76
20	87.0	87.0	85.3	84.6	83.9	82.3	81.1	80.6	79.9	79.0	78.5	77.8	80.52
21	88.0	87.8	87.3	86.1	86.9	82.1	79.2	78.7	78.1	76.7	76.7	76.6	80.59
22	86.0	86.0	87.0	86.4	78.0	75.8	75.3	75.8	75.4	75.2	75.3	75.6	78.68
23	83.6	84.0	79.5	80.5	81.3	80.7	80.2	79.0	77.5	76.5	76.0	75.2	78.50
24	85.2	84.6	84.6	83.3	83.1	82.3	80.6	78.0	77.2	76.8	76.0	76.0	78.75
25	83.1	81.8	83.1	82.0	82.0	80.7	80.0	79.4	78.2	76.9	76.7	76.9	79.15
26	83.6	80.7	81.2	78.1	77.7	76.5	76.1	75.9	75.6	75.0	74.8	74.6	77.92
27	83.2	83.2	83.0	83.0	82.1	81.0	79.6	78.4	77.6	77.1	76.8	76.1	78.33
28	86.5	86.6	86.0	85.0	84.0	77.4	77.0	76.5	76.2	76.0	75.8	75.6	78.80
29	79.7	78.5	78.5	79.0	78.8	78.1	77.0	76.4	75.6	75.2	75.2	75.2	76.69
30	78.0	78.1	78.1	78.1	78.0	77.6	77.0	76.7	76.3	76.1	76.0	76.0	76.57
Hourly Means.	84.79	84.75	84.14	83.29	82.40	80.66	79.44	78.61	77.94	77.32	76.90	76.58	79.19

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	949	940	932	932	940	947	940	908	887	761	672	654	—
	2	940	940	966	939	956	956	948	916	848	815	761	737	—
	3	858	844	851	867	882	872	890	861	834	777	740	721	—
	4	869	845	867	900	915	923	924	900	869	834	765	721	—
	5	906	923	931	939	947	923	930	915	838	797	761	679	—
	6	885	893	846	876	900	899	916	854	826	806	873	919	—
	7	874	899	914	930	897	904	921	890	823	750	674	660	—
	8	921	920	946	955	955	946	938	880	853	719	681	636	—
	9	924	940	931	939	939	939	930	907	818	794	711	663	—
	10	933	942	942	942	958	957	957	887	802	704	700	643	—
	11	922	931	922	930	939	913	914	867	833	764	747	755	—
	12	956	956	965	956	965	947	947	875	839	757	713	710	—
	13	956	965	965	965	956	956	956	939	840	786	755	711	—
	14	925	941	948	940	940	947	930	917	828	767	718	671	—
	15	931	940	940	939	947	947	956	948	884	856	805	793	—
	16	957	957	957	956	947	956	956	916	855	737	731	709	—
	17	906	915	938	955	946	955	956	922	907	847	802	799	—
	18	958	948	957	957	947	947	956	916	855	784	706	721	—
	19	957	957	957	966	957	957	940	925	836	747	767	674	—
	20	900	924	940	948	957	948	948	924	886	752	721	673	—
	21	924	916	924	932	923	930	915	860	748	706	605	594	—
	22	940	948	948	948	947	947	939	900	818	732	701	775	—
	23	957	957	957	957	956	966	966	941	865	806	786	809	—
	24	939	947	956	956	956	956	947	890	837	788	731	708	—
	25	948	966	966	957	966	974	957	932	864	784	741	718	—
	26	948	957	957	957	948	966	957	901	825	792	700	666	—
	27	956	956	956	965	973	965	965	899	885	797	758	745	—
	28	948	956	956	956	956	956	965	899	840	792	701	636	—
	29	930	939	930	930	930	947	956	914	883	837	810	773	—
	30	947	947	956	956	965	973	965	957	924	893	885	904	—
Hourly Means.		929	934	937	942	944	944	943	905	848	783	741	719	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	637	677	684	657	744	782	828	887	875	890	923	915	832
	2	699	675	716	766	770	804	808	844	806	821	851	866	840
	3	703	697	702	745	772	789	803	823	823	831	831	839	806
	4	705	704	717	781	786	804	808	829	844	875	900	915	833
	5	646	556	565	595	670	731	775	800	820	826	855	878	800
	6	918	855	869	882	883	890	916	916	916	906	899	890	885
	7	638	671	713	669	713	802	835	844	874	889	914	913	817
	8	618	665	683	723	736	767	808	850	886	885	901	916	825
	9	665	673	672	695	725	761	829	873	895	918	926	934	833
	10	708	688	697	670	693	743	814	867	882	859	899	915	825
	11	715	789	815	867	908	932	899	947	965	965	956	956	881
	12	700	707	718	717	756	899	940	957	957	956	956	956	867
	13	702	684	772	783	796	823	858	896	880	902	908	917	861
	14	718	771	777	750	777	845	889	911	943	884	899	923	857
	15	766	793	809	858	842	879	926	925	917	941	948	957	894
	16	703	706	786	783	836	857	879	903	918	926	917	891	864
	17	753	772	764	760	794	851	895	910	918	926	933	933	877
	18	725	586	609	709	741	801	828	894	918	926	925	941	844
	19	701	692	683	679	777	817	815	820	849	885	908	908	841
	20	634	622	745	723	762	830	881	865	871	870	885	908	838
	21	571	595	659	714	633	672	801	909	908	948	932	940	802
	22	669	682	697	689	875	898	939	940	947	956	957	957	865
	23	741	715	840	849	851	888	872	894	892	899	915	930	884
	24	705	792	757	767	760	786	842	884	924	916	931	923	858
	25	767	792	746	792	800	819	864	894	853	891	924	932	869
	26	734	904	827	901	925	940	948	957	948	947	947	956	896
	27	747	739	760	809	815	835	870	893	917	932	932	940	875
	28	644	690	720	744	706	811	874	899	906	923	931	931	848
	29	863	901	901	854	854	901	932	948	940	947	939	947	904
	30	892	852	868	884	876	907	932	948	957	966	966	966	928
Hourly Means.		713	722	742	761	786	829	864	891	898	907	917	923	855

DIRECTION OF THE WIND.

JUNE.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	C	NNW	NNW	SW	SW	SW	SW	NW	NW
2	C	C	C	C	C	C	SSE	SSE	W	WSW	W	WNW
3	W	WNW	W	WSW	WNW	W	W	W	W	W	W	W
4	W	WNW	W	WSW	WSW	C	WSW	SSW	ESE	SE	WSW	W
5	NW	C	C	C	C	W	W	SW	S	NW	WNW	W
6	C	C	WNW	C	C	C	C	NW	WNW	NW	NW	NW
7	W	W	C	C	WNW	C	WNW	WNW	WSW	NW	W	WNW
8	C	S	C	C	C	S	S	S	S	SSW	SW	WNW
9	C	C	N	C	C	C	N	C	N	ESE	E	ENE
10	C	C	C	NE	C	C	NE	SE	ESE	SE	E	E
11	SW	SW	SW	C	C	C	SW	SW	SW	E	E	E
12	SSW	SSW	C	SSW	SSW	SSW	SSW	E	ESE	S	E	ENE
13	C	C	C	C	C	C	SSW	SSW	SW	SSW	SSE	SE
14	NW	C	C	C	C	NW	NW	NW	E	E	ESE	ENE
15	C	W	W	C	C	W	W	W	SW	SW	SW	SW
16	C	NE	C	C	NE	C	NE	ENE	ENE	ENE	ENE	E
17	WNW	NW	WNW	W	SW	C	C	C	SW	SW	SW	NNW
18	C	NE	NE	NE	C	C	C	NE	E	ENE	SSE	ESE
19	NE	NE	NE	NE	NE	NE	C	NE	NE	NE	ENE	NNE
20	C	N	C	C	C	C	C	C	N	NW	W	WNW
21	C	C	C	C	C	C	SE	SSW	SSW	SSW	WSW	NW
22	C	SE	C	C	C	C	SE	SSE	SSW	S	WSW	N
23	C	C	C	C	C	C	C	C	WSW	WSW	ENE	E
24	C	C	W	C	W	W	W	WSW	SW	WSW	NW	NW
25	SW	SW	SW	C	SW	SW	SW	S	E	SE	E	NE
26	C	C	C	C	C	C	C	S	SSW	SW	SW	WNW
27	C	C	C	C	C	C	SE	SSE	SSE	SSE	SSE	WSW
28	C	C	C	C	C	C	C	WNW	WNW	SW	SE	ENE
29	SSW	SSW	C	C	C	SSW	SSW	SSW	SSW	C	SSW	SSW
30	C	N	C	C	N	C	C	C	N	NE	NE	NE

JUNE.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	NW	NE	S	WSW	SSE	SE	SE	SSE	SSE	SSE	SSE	C
2	WNW	WNW	W	W	W	W	W	W	W	W	W	W
3	W	W	WSW	WSW	W	W	WSW	W	WSW	WSW	W	W
4	W	W	WSW	WSW	W	W	NW	NW	NW	C	C	C
5	WSW	W	W	NW	NNW	NW	NW	NW	W	W	W	C
6	ENE	SW	SW	W	W	WSW	WSW	WSW	W	WSW	WSW	WSW
7	WNW	NW	NNE	NNW	SW	SW	S	S	S	S	C	C
8	WNW	N	N	NE	N	N	C	C	C	C	C	C
9	NE	NNE	NE	NE	NE	NE	C	NE	C	C	C	NE
10	NNE	NE	NE	NE	NE	NE	WSW	SW	SW	SW	C	C
11	ENE	NE	ENE	ENE	C	SW	SW	SW	SSW	SSW	C	C
12	NE	NE	NE	NNE	SW	SSW	SW	SSW	SSW	SSW	SSW	C
13	E	ENE	NNE	N	N	NNW	C	NNW	NW	WNW	WSW	WSW
14	ENE	NE	NE	ENE	NE	NE	C	C	NE	SW	W	W
15	E	NE	NE	NE	NE	NE	C	C	C	C	C	C
16	NE	NNE	N	N	N	C	C	C	C	C	N	NW
17	NNW	NE	NE	NE	NE	C	C	C	C	C	C	C
18	SE	NE	NNE	N	NNE	NE	C	C	C	C	NE	NE
19	NNE	NNE	NE	NNE	NNE	N	N	C	N	N	C	N
20	WSW	W	ENE	NNW	S	SE	C	C	C	SE	SE	C
21	N	NW	NW	N	NNW	SE	SE	C	SE	SE	C	C
22	N	N	N	N	WSW	WSW	C	WSW	WSW	C	C	C
23	E	NE	NE	NE	NE	NE	NE	NNE	W	W	C	C
24	NW	NNE	NE	NNE	NNE	NNE	NE	N	NNW	SW	SW	SW
25	NNE	NNE	NE	NE	N	N	C	N	SW	SW	SW	C
26	N	N	NW	SW	SSW	SSW	SSW	SE	SE	SE	SE	SE
27	NW	NW	NW	NW	WNW	C	C	C	C	C	C	C
28	NE	NE	NNE	NNE	NE	SW	SW	SW	SSW	SSW	SSW	SSW
29	ENE	NE	N	N	N	C	N	N	N	N	C	C
30	NE	NE	C	NE	C	C	NE	NE	NE	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

JUNE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	0.0	0.0	0.0	0.8	4.8	6.4	3.2	3.2	5.6	4.8	4.0	—
2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	6.4	5.6	6.4	9.7	—
3	1.6	6.4	6.4	5.6	3.2	3.2	4.0	8.0	8.9	12.1	13.7	11.3	—
4	3.2	2.4	3.2	1.6	0.8	0.0	1.6	3.2	3.2	2.4	4.8	6.4	—
5	0.8	0.0	0.0	0.0	0.0	3.2	4.8	3.2	4.8	4.0	5.6	6.4	—
6	0.0	0.0	1.6	0.0	0.0	0.0	0.0	1.6	4.0	3.2	1.6	2.4	—
7	0.8	0.8	0.0	0.0	0.8	0.0	1.6	1.6	3.2	6.4	7.2	8.0	—
8	0.0	0.8	0.0	0.0	0.0	0.8	1.6	0.8	3.2	3.2	4.8	6.4	—
9	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.0	3.2	5.6	6.4	4.0	—
10	0.0	0.0	0.0	0.8	0.0	0.0	1.6	6.4	8.9	12.1	8.9	10.5	—
11	1.6	0.8	1.6	0.0	0.0	0.0	1.6	1.6	1.6	3.2	4.8	6.4	—
12	1.6	1.6	0.0	0.8	0.8	3.2	4.8	6.4	4.8	4.8	4.8	4.8	—
13	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	5.6	3.2	3.2	4.8	—
14	1.6	0.0	0.0	0.0	0.0	0.8	2.4	1.6	3.2	6.4	9.7	10.5	—
15	0.0	0.8	0.8	0.0	0.0	0.8	0.8	3.2	3.2	1.6	1.6	6.4	—
16	0.0	1.6	0.0	0.0	0.8	0.0	1.6	0.8	2.4	4.0	3.2	5.6	—
17	6.4	6.4	2.4	3.2	1.6	0.0	0.0	0.0	1.6	0.8	1.6	3.2	—
18	0.0	0.8	1.6	0.8	0.0	0.0	0.0	0.8	2.4	2.4	2.4	1.6	—
19	1.6	1.6	2.4	1.6	0.8	0.8	0.0	0.8	1.6	2.4	1.6	4.8	—
20	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2	4.0	—
21	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.8	6.4	4.8	3.2	4.0	—
22	0.0	0.8	0.0	0.0	0.0	0.0	0.8	3.2	4.8	4.8	1.6	3.2	—
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.0	5.6	5.6	—
24	0.0	0.0	0.8	0.0	0.8	0.8	0.8	3.2	3.2	3.2	4.0	3.2	—
25	0.8	0.8	0.8	0.0	0.8	0.8	2.4	4.8	7.2	6.4	8.0	8.0	—
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.2	2.4	3.2	3.2	—
27	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	2.4	1.6	1.6	2.4	—
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.8	6.4	8.0	—
29	3.2	1.6	0.0	0.0	0.0	0.8	1.6	1.6	0.8	0.0	0.8	4.8	—
30	0.0	0.8	0.0	0.0	0.8	0.0	0.0	0.0	1.6	3.2	2.4	4.0	—
Hourly Means.	0.77	0.96	0.75	0.48	0.40	0.67	1.52	2.45	3.71	4.25	4.57	5.59	—

JUNE.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	7.2	7.2	8.0	6.4	8.0	2.4	3.2	8.0	3.2	1.6	0.8	0.0	3.70
2	11.3	9.7	8.0	6.4	4.8	4.8	8.0	9.7	6.4	2.4	3.2	2.4	4.55
3	13.7	12.9	14.5	11.3	8.0	8.0	6.4	4.0	2.4	2.4	3.2	2.4	7.23
4	4.8	8.0	8.0	4.8	3.2	2.4	2.4	3.2	1.6	0.0	0.0	0.0	2.97
5	6.4	6.4	6.4	3.2	4.0	2.4	1.6	0.8	1.6	0.8	0.8	0.0	2.80
6	4.8	6.4	1.6	6.4	4.0	1.6	1.6	2.4	3.2	3.2	1.6	0.8	2.17
7	6.4	8.0	8.0	8.0	6.4	4.8	3.2	1.6	1.6	0.8	0.0	0.0	3.30
8	6.4	8.0	9.7	8.0	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.50
9	4.8	9.7	9.7	11.3	11.3	2.4	0.0	0.8	0.0	0.0	0.0	0.8	2.98
10	11.3	10.5	12.1	10.5	6.4	5.6	3.2	4.0	0.8	0.8	0.0	0.0	4.77
11	5.6	8.0	10.5	3.2	0.0	5.6	4.8	8.0	4.8	1.6	0.0	0.0	3.14
12	8.0	9.7	12.1	10.5	9.7	8.9	2.4	1.6	0.8	0.8	0.8	0.0	4.32
13	9.7	9.7	9.7	7.2	6.4	3.2	0.0	0.8	1.6	1.6	2.4	1.6	3.21
14	10.5	9.7	8.9	8.0	4.8	1.6	0.0	0.0	3.2	4.8	4.0	1.6	3.89
15	6.4	8.0	5.6	0.8	0.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.77
16	8.0	8.0	6.4	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.8	3.2	2.10
17	4.0	6.4	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.77
18	4.0	9.7	8.9	9.7	8.0	1.6	0.0	0.0	0.0	0.0	0.8	1.6	2.38
19	4.0	4.8	8.0	8.0	4.8	1.6	1.6	0.0	0.8	0.8	0.0	0.8	2.30
20	4.0	4.8	8.9	4.8	6.4	1.6	0.0	0.0	0.0	1.6	0.8	0.0	1.90
21	4.8	3.2	1.6	3.2	3.2	6.4	0.8	0.0	0.8	1.6	0.0	0.0	2.07
22	4.8	6.4	6.4	8.0	10.5	1.6	0.0	1.6	0.8	0.0	0.0	0.0	2.47
23	8.0	8.9	5.6	2.4	3.2	1.6	4.8	3.2	3.2	0.8	0.0	0.0	2.47
24	3.2	7.2	8.0	4.0	4.8	3.2	3.2	3.2	3.2	4.0	3.2	1.6	2.87
25	9.7	12.1	11.3	8.0	3.2	0.8	0.0	3.2	1.6	1.6	1.6	0.0	3.91
26	6.4	6.4	6.4	6.4	1.6	3.2	3.2	4.8	4.8	1.6	1.6	0.8	2.57
27	3.2	2.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93
28	8.0	8.0	12.9	12.9	9.7	6.4	2.4	4.8	4.0	5.6	3.2	0.8	4.21
29	8.0	8.0	6.4	4.8	0.8	0.0	0.8	2.4	1.6	0.8	0.0	0.0	2.03
30	3.2	3.2	0.0	1.6	0.0	0.0	1.6	0.8	1.6	0.0	0.0	0.0	1.03
Hourly Means.	6.69	7.71	7.56	6.21	4.73	2.83	1.84	2.30	1.79	1.31	0.96	0.61	2.94

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

JUNE. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	4	8	5	5	6	7	8	8	5	4	5	—
2	4	3	2	3	3	3	9	8	7	8	9	9	—
3	8	10	7	10	9	7	9	8	8	9	9	10	—
4	4	4	6	6	8	10	10	10	9	8	7	7	—
5	3	2	2	7	8	10	10	10	9	6	6	4	—
6	6	6	10	9	7	8	9	9	9	10	10	10	—
7	8	9	6	7	6	3	3	2	1	2	8	8	—
8	3	2	2	6	10	9	10	9	9	3	1	1	—
9	2	1	3	6	8	10	10	10	9	9	6	5	—
10	4	4	3	2	2	4	2	1	3	4	8	6	—
11	1	2	2	2	4	5	3	6	8	9	10	8	—
12	9	3	4	7	7	2	1	0	0	1	1	3	—
13	6	7	5	4	3	4	7	2	2	2	4	6	—
14	10	10	9	6	6	5	2	0	7	5	6	2	—
15	9	9	7	8	9	9	10	10	10	10	10	10	—
16	9	9	8	7	5	6	7	6	6	6	7	7	—
17	10	10	10	10	9	10	10	10	9	10	10	10	—
18	10	6	6	6	6	4	2	1	0	2	2	4	—
19	2	7	9	7	10	8	6	7	6	6	10	9	—
20	10	10	9	9	10	10	10	9	9	7	5	7	—
21	8	8	8	8	6	5	3	2	2	3	3	4	—
22	3	7	1	7	2	7	3	3	1	4	8	7	—
23	10	10	9	6	6	6	4	2	6	8	10	9	—
24	8	10	4	5	5	10	6	4	4	3	4	4	—
25	10	10	10	10	10	9	4	3	3	4	5	7	—
26	9	8	5	5	7	8	4	4	4	4	5	6	—
27	4	7	7	2	1	4	8	6	7	5	10	10	—
28	6	3	9	6	7	5	7	3	2	2	2	2	—
29	2	2	3	2	2	8	10	10	10	10	10	10	—
30	10	10	10	10	10	10	10	10	10	10	10	10	—
Hourly Means.	6.3	6.4	6.1	6.3	6.4	6.8	6.5	5.8	5.9	5.8	6.7	6.7	—

JUNE. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	5	6	7	7	8	8	10	10	10	10	10	7	6.9
2	9	9	10	10	10	10	10	10	10	10	10	10	7.8
3	9	9	8	7	7	8	9	8	9	9	9	4	8.3
4	10	9	8	9	9	9	9	10	9	9	8	3	8.0
5	5	4	2	1	4	4	1	1	7	6	4	3	5.0
6	10	10	10	10	10	10	10	10	10	10	10	10	9.3
7	4	7	8	8	9	9	10	10	4	3	3	2	5.8
8	3	4	3	6	6	8	4	3	2	2	2	1	4.5
9	4	4	3	3	3	2	1	3	1	8	4	8	5.1
10	10	4	0	0	0	10	7	1	2	10	5	2	3.9
11	10	10	10	10	10	10	10	10	10	10	10	9	7.5
12	5	3	4	6	9	10	10	10	10	9	9	5	5.3
13	5	7	6	8	9	8	9	8	9	9	9	10	6.2
14	10	10	10	9	8	7	7	9	8	5	3	4	6.6
15	10	10	10	10	10	10	3	4	3	3	4	9	8.2
16	9	10	10	10	10	10	10	10	6	4	3	6	7.5
17	10	10	10	9	9	9	9	10	10	10	8	10	9.7
18	5	1	1	1	1	2	0	1	1	2	2	0	2.8
19	4	6	3	2	4	10	8	10	10	9	7	10	7.1
20	10	10	10	10	9	10	10	10	6	4	6	9	8.7
21	9	9	9	9	7	10	10	5	4	3	6	5	6.1
22	6	7	5	6	10	10	10	6	4	2	5	6	5.4
23	8	10	10	10	10	10	9	10	9	8	4	3	7.8
24	8	9	9	9	7	10	10	9	10	10	10	10	7.4
25	10	10	6	6	6	7	3	3	3	4	9	7	6.6
26	10	10	10	10	10	10	10	10	6	10	10	10	7.7
27	10	10	10	10	10	10	5	6	6	9	9	7	7.2
28	5	6	6	7	10	10	4	7	8	5	3	2	5.3
29	10	10	10	9	8	7	4	4	6	10	10	10	7.4
30	10	10	10	10	10	10	10	10	10	10	10	8	9.9
Hourly Means.	7.8	7.8	7.3	7.4	7.8	8.6	7.4	7.3	6.8	7.1	6.7	6.3	6.83

Mean Batavia Time.		8—8½ A. M.	8½—9	9—9½	9½—10	10—10½	10½—11	11—11½	11½—12	12—12½	12½—1 P. M.	1—1½	1½—2	2—2½	2½—3	3—3½	3½—4	Daily and Monthly Means.
JUNE.	1	9	7	4	10	9	10	10	8	9	7	7	6	8	9	4	5	7.6
	2	4	7	8	6	2	3	1	0	5	6	8	7	2	0	0	0	3.7
	3	8	8	6	1	1	0	2	7	6	3	3	2	4	5	8	6	4.4
	4	0	0	1	2	3	5	4	4	2	3	1	4	6	5	0	0	2.5
	5	0	1	2	1	5	9	9	10	9	7	10	10	10	9	10	7	6.8
	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	7	5	6	10	10	10	8	6	8	8	7	8	7	5	5	10	9	7.6
	8	0	1	2	9	10	10	10	10	10	10	7	6	10	10	0	1	6.6
	9	0	0	1	6	7	10	8	9	7	4	8	6	7	10	10	10	6.4
	10	10	10	10	10	7	8	4	7	9	6	7	10	10	10	10	10	8.6
	11	5	1	2	1	0	0	0	0	3	0	0	1	1	0	0	0	0.9
	12	10	10	10	10	10	10	10	10	8	7	7	10	10	10	10	7	9.3
	13	3	10	10	10	10	10	9	8	7	9	8	6	5	4	3	2	7.1
	14	5	10	3	4	8	8	8	9	6	0	0	0	0	0	2	1	4.0
	15	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
	16	8	9	9	10	10	4	6	7	6	6	5	0	0	0	0	0	5.0
	17	0	0	0	0	0	0	0	0	2	1	1	0	0	0	4	8	1.0
	18	10	10	10	10	8	10	8	4	0	2	10	10	8	10	10	10	8.1
	19	7	10	10	10	9	3	2	8	5	4	7	7	10	10	10	9	7.6
	20	0	1	2	10	6	3	9	8	7	6	3	0	3	0	0	5	3.9
	21	10	10	10	10	10	10	9	8	8	8	3	0	1	2	0	6	6.6
	22	8	10	10	10	7	8	0	1	7	9	2	5	6	10	10	5	6.8
	23	6	9	8	4	2	2	0	0	2	3	8	4	0	0	0	0	3.0
	24	6	4	10	5	5	10	10	8	7	7	3	2	5	4	0	0	5.4
	25	6	8	10	9	9	10	7	6	8	4	0	0	8	8	5	4	6.4
	26	10	10	10	10	7	8	4	4	0	0	0	0	0	0	0	0	3.9
	27	9	5	4	8	8	4	0	0	0	0	0	0	0	0	0	0	2.4
	28	10	10	9	8	10	10	10	5	9	8	10	10	10	10	10	10	9.3
	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Means.		5.1	5.8	5.9	6.3	6.0	6.0	5.0	5.1	5.2	4.4	4.3	3.9	4.4	4.5	4.0	4.0	4.99

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

JUNE.

Mean Batavia Time.	7h30 A. M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	34.5	35.6	37.5	45.1	48.3	51.6	52.7	54.2	54.1	53.9	53.8	54.3	55.9	49.9	54.6	54.2	47.4	49.4	36.4
2	29.0	34.2	42.8	47.2	46.9	44.1	42.5	44.1	45.3	45.4	47.2	47.2	47.0	48.8	46.1	36.4	36.3	31.7	32.7
3	28.6	38.9	42.6	37.7	37.9	40.4	40.8	43.8	53.4	42.4	48.8	47.2	49.9	46.8	45.8	40.4	46.4	42.9	33.5
4	26.9	30.3	31.6	34.9	37.4	42.4	40.4	47.3	48.9	47.3	46.2	44.9	43.6	45.4	50.9	41.8	37.3	32.9	31.5
5	—	29.5	33.6	41.9	43.4	47.2	50.4	51.9	54.9	54.2	52.0	51.9	55.8	53.9	50.6	50.6	50.4	42.9	38.9
6	39.9	32.4	41.2	40.2	40.8	35.6	34.0	33.1	33.4	33.6	—	33.8	38.2	34.9	-	38 7	36.2	—	28.4
7	35.8	42.9	37.9	49.5	50.6	52.2	53.9	51.4	50.4	53.4	49.6	53.0	48.2	52.0	44.0	47.6	52.4	46.6	37.2
8	26.6	32.4	36.9	42.7	46.4	50.4	52.0	52.4	52.4	53.3	53.4	55.4	47.4	48.0	52.4	49.6	38.8	36.8	33.6
9	25.9	29.9	33.4	42.4	44.5	48.4	49.4	50.4	52 4	49.4	46.9	55.0	47.1	43.9	46.7	50.5	50.0	46.9	37.5
10	37.9	44.2	46.5	49.9	51.4	45.6	51.7	43.2	43.4	55.3	55.5	43.3	52.9	52.0	51.4	50.4	49.5	47.4	40.3
11	39.0	40.3	37.6	43.7	44.5	41.1	41.2	40.0	41.2	47.2	46.4	36.2	35.2	35.2	40.9	—	—	26.9	26.9
12	37.8	43.4	45.4	47.7	48.9	49.8	50.9	51.4	51.8	51.9	50.6	50.2	45.8	52.1	50.6	49.8	49.3	46.7	39.1
13	27.2	36.1	43.5	46.9	50.0	51.9	51.1	49.4	47.6	48.4	48.5	53.2	54.0	46.0	44.4	42.8	39.8	39.0	34.5
14	26.8	40.3	48.1	41.4	41.6	47.9	51.4	51.3	52.4	54.4	44.4	37.5	37.7	37.6	36.8	35.3	36.4	42.4	35.9
15	25.0	27.9	35.6	32.6	34.0	35.9	38.0	38.9	40.7	41.0	40.6	39.9	35.3	34.4	37.5	36.9	36.3	32.4	29.5
16	31.8	38.2	38.9	44.6	47.8	51.2	51.4	45.4	49.6	50.4	51.9	48.6	47.2	39.5	35.3	33.1	31.1	30.9	30.0
17	28.2	30.5	32.0	35.5	40.3	36.0	34.1	35.9	38.8	39.6	45.0	45.4	44.3	34.8	34.4	35.9	36.4	46.4	41.4
18	25.5	42.9	45.3	47.9	48.9	46.0	52.1	53.4	48.1	40.1	35.6	39.0	52.0	51.4	48.2	49.8	48.5	46.0	39.4
19	28.1	34.4	40.5	47.0	47.9	51.9	47.3	27.4	48.3	52.9	51.7	49.4	48.8	51.0	53.9	46.4	44.9	45.1	37.5
20	27.3	30.4	35.0	38.4	52.5	48.3	47.7	50.4	54.1	46.7	54.3	43.4	50.0	39.9	51.5	34.9	34.9	35.5	36.4
21	37.8	44.5	45.9	48.5	48.9	51.4	52.4	53.1	53.6	54.1	53.9	51.5	51.3	43.4	41.0	42.9	39.4	34.4	41.6
22	34.8	42.8	45.6	48.4	49.6	47.8	52.5	41.4	35.2	37.8	52.0	55.1	44.9	45.4	43.9	50.9	50.2	48.4	36.4
23	35.6	42.4	43.2	44.5	43.0	40.4	42.2	38.4	38.3	40.0	43.0	47.8	48.9	38.4	—	29.9	30.3	31.3	30.9
24	26.8	38.3	36.9	47.9	42.3	46.4	50.3	52.9	50.7	51.5	49.3	46.9	42.9	43.3	39.4	43.5	37.9	33.7	33.4
25	30.5	41.9	44.3	47.9	49.1	48.5	52.4	51.1	44.8	51.1	54.3	33.9	35.3	32.9	36.9	44.6	40.9	34.5	33.5
26	37.9	45.8	49.2	44.0	43.2	47.9	43.6	50.7	41.1	48.8	40.7	32.9	—	33.6	35.6	32.0	29.3	28.6	—
27	36.2	42.8	36.8	39.6	44.0	49.6	52.6	42.1	41.7	39.5	40.3	39.2	41.2	37.0	36.0	35.6	34.8	33.4	31.6
28	29.0	41.9	44.8	48.3	49.4	51.6	52.8	50.9	51.3	52.6	52.6	54.0	52.0	48.7	51.7	46.6	46.0	48.8	42.3
29	24.9	27.4	29.0	31.4	30.9	34.9	36.4	33.4	31.4	33.3	33.0	—	—	—	—	33.4	33.4	32.6	31.3
30	24.6	27.4	28.8	31.8	33.5	33.0	33.4	29.6	29.4	30.5	28.5	28.4	28.3	32.9	30.5	29.4	30.4	28.5	26.4
Means.	31.03	37.00	39.68	42.98	44.60	45.65	46.72	45.30	45.96	46.67	47.24	45.47	45.75	43.21	44.11	41.86	40.51	38.72	34.76

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

JUNE. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	8.9	9.4	4.1	3.5	4.1	4.1	5.9	5.3	4.7	—	—	—	—
2	6.5	5.9	4.1	3.5	3.5	3.5	5.3	5.9	1.2	3.0	1.8	2.4	—
3	3.0	2.4	2.4	1.8	2.4	3.0	3.5	1.8	1.2	—	—	—	—
4	3.0	3.0	3.0	2.4	3.0	4.1	7.1	6.5	3.5	3.0	2.4	2.4	—
5	5.3	4.1	4.7	3.0	3.0	2.4	2.4	0.6	2.4	1.8	0.6	1.8	—
6	3.5	3.0	3.5	1.8	4.1	1.8	6.5	—	—	—	—	—	—
7	1.2	1.2	1.2	2.4	1.8	3.0	6.5	1.8	1.2	0.6	0.6	0.6	—
8	5.3	3.5	4.7	4.7	5.3	3.0	0.6	4.7	4.1	1.8	—	1.2	—
9	9.0	14.0	13.5	9.0	12.5	14.0	10.5	5.0	9.5	1.5	1.0	0.0	—
10	7.5	9.0	8.5	11.5	11.5	14.0	17.0	7.5	4.5	3.5	3.5	1.5	—
11	11.5	9.5	7.5	10.0	13.0	6.5	10.0	8.0	4.5	3.5	3.5	2.5	—
12	7.5	6.0	10.0	11.5	9.5	12.0	12.5	6.5	4.0	1.5	1.5	1.5	—
13	6.5	6.5	7.0	6.5	6.0	8.0	11.5	9.0	3.5	0.5	1.5	2.0	—
14	4.5	5.0	7.0	6.5	4.5	14.5	12.0	4.5	2.5	1.5	1.0	1.0	—
15	4.5	3.5	4.0	4.5	5.0	4.0	8.0	8.0	7.0	3.5	3.0	1.0	—
16	10.5	12.5	12.0	14.0	11.5	10.0	8.5	14.0	13.0	10.5	3.0	2.0	—
17	14.5	P N	P N	3.0	12.5	13.5	20.0	18.0	10.5	11.0	9.0	4.0	—
18	9.0	13.5	13.5	7.5	8.5	9.0	14.5	11.0	5.0	2.0	2.0	1.5	—
19	9.5	7.0	4.5	4.5	4.5	5.0	7.0	9.5	5.5	1.5	1.5	1.0	—
20	5.5	4.5	4.5	5.0	7.5	9.5	9.0	5.5	5.0	1.5	2.5	1.5	—
21	7.5	3.5	5.0	5.5	7.0	7.5	10.5	—	—	—	—	—	—
22	—	—	—	—	—	—	—	1.5	2.0	0.0	0.5	— 0.5	—
23	6.0	7.0	8.0	6.5	10.0	8.5	10.5	6.0	4.0	2.0	2.0	—	—
24	—	—	—	—	—	—	—	5.0	4.0	2.0	2.0	1.5	—
25	0.5	2.5	4.5	4.0	6.5	5.0	11.5	4.0	2.5	2.0	1.5	1.5	—
26	5.0	6.5	7.0	5.5	7.5	6.0	7.0	5.0	2.5	1.5	1.0	1.5	—
27	5.0	4.5	5.0	4.5	5.0	9.0	11.0	5.0	4.5	3.0	3.0	3.0	—
28	8.0	6.0	7.5	9.0	7.0	10.0	13.0	5.0	3.0	1.0	1.0	0.5	—
29	3.0	2.5	3.0	3.0	4.0	6.5	6.5	5.5	5.0	4.5	3.5	3.0	—
30	5.0	7.5	2.5	5.5	6.5	5.0	6.5	4.5	3.0	2.0	2.5	0.5	—
Hourly Means.	6.3	6.1	6.0	5.7	6.7	7.2	9.1	6.2	4.4	2.7	2.2	1.6	—

JUNE. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	—	—	—	— 1.2	P N	P N	P N	P N	P N	3.5	4.1	5.3	4.8
2	1.2	1.2	3.0	1.8	3.5	3.0	2.4	2.4	2.4	3.0	2.4	1.8	3.1
3	—	— 0.6	1.2	1.8	0.6	2.4	2.4	1.8	3.0	2.4	2.4	3.0	2.1
4	1.8	— 1.8	3.0	2.4	0.0	1.8	5.3	4.1	4.7	5.3	7.1	11.2	3.7
5	0.6	1.8	1.8	2.4	3.0	1.2	4.7	5.3	4.7	4.1	4.1	3.5	2.9
6	—	—	—	—	—	—	—	—	—	—	—	—	3.5
7	1.2	1.8	1.8	1.8	2.4	3.5	3.5	4.7	4.1	4.7	4.7	4.7	2.5
8	3.0	2.4	3.5	3.0	3.0	5.3	4.7	13.6	13.6	20.1	14.2	17.1	6.2
9	0.5	0.0	0.0	3.0	1.0	6.0	10.5	12.5	11.0	15.0	11.0	10.0	7.5
10	1.0	2.5	2.0	2.0	4.5	8.5	3.5	9.5	6.5	7.5	9.5	13.0	7.1
11	4.5	8.0	N	13.0	22.0	16.5	P N	P N	P N	6.0	7.5	8.0	8.8
12	1.5	2.0	2.0	4.5	0.0	P N	P N	P N	P N	3.5	7.0	6.5	5.6
13	2.0	2.0	3.0	2.0	2.0	3.5	9.5	10.5	11.0	4.5	N	3.5	5.3
14	1.5	2.0	2.5	1.5	P N	P N	14.0	— 9.0	— 2.0	3.0	3.0	4.0	3.9
15	2.0	2.0	5.5	— 12.5	2.5	5.0	10.5	13.5	14.0	13.5	10.0	8.5	5.4
16	2.5	3.0	5.5	2.0	—	—	—	—	—	—	—	—	8.4
17	2.5	5.0	5.5	2.0	4.5	11.0	16.5	12.5	— 0.5	6.5	6.5	7.0	8.9
18	1.5	1.0	1.5	3.0	3.5	4.5	5.0	8.0	8.5	9.0	9.5	9.5	6.7
19	1.0	1.5	1.5	1.0	0.5	— 2.0	5.0	27.0	P N	N	0.0	6.5	4.7
20	1.5	1.5	1.0	P N	P N	P N	P	8.0	7.0	6.0	5.0	6.0	4.9
21	—	—	—	—	—	—	—	—	—	—	—	—	6.6
22	0.0	— 0.5	0.0	P N	P N	P N	P N	— 3.0	6.0	7.0	7.5	7.5	2.2
23	—	—	—	—	—	—	—	—	—	—	—	—	6.4
24	1.5	1.5	1.0	3.0	0.0	9.5	7.5	9.0	5.0	4.5	2.5	4.0	3.7
25	2.5	2.5	2.0	6.0	7.5	9.5	8.0	7.5	2.0	5.0	— 3.0	7.5	4.3
26	1.0	6.0	10.0	P N	P N	2.0	4.5	4.0	3.0	4.0	4.5	5.0	4.6
27	3.5	2.5	5.0	4.0	—	12.0	11.5	12.0	1.5	2.5	4.0	6.5	5.5
28	0.5	1.0	2.0	1.5	10.0	18.0	5.0	5.0	4.0	4.0	3.5	3.0	5.4
29	4.0	0.0	2.5	—	—	6.5	7.5	6.0	4.5	4.5	4.5	3.5	4.3
30	0.5	— 0.5	1.0	1.0	1.5	8.5	7.5	6.5	7.0	7.0	5.0	5.0	4.2
Hourly Means.	1.7	1.8	2.7	2.1	3.8	6.5	7.1	7.5	5.5	6.2	5.5	6.6	5.05

BAROMETRIC PRESSURE.

BAROMETER AT 0°C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

JULY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	9.70	9.19	8.50	8.46	8.56	8.82	9.45	9.84	9.84	9.83	9.63	9.15	—
2	8.80	8.54	8.36	8.62	8.84	9.16	9.32	9.54	9.80	9.79	9.22	8.73	—
3	10.15	9.86	9.42	9.10	9.16	9.92	10.24	10.84	10.66	10.51	10.39	9.67	—
4	9.78	9.50	9.11	9.23	9.29	9.75	9.97	10.52	10.36	10.44	10.29	10.16	—
5	9.80	9.36	9.02	8.77	8.84	9.01	9.09	9.87	9.77	9.85	9.79	9.45	—
6	9.38	9.04	8.55	8.47	8.25	8.47	9.09	9.59	9.87	9.79	8.98	8.59	—
7	8.34	7.65	7.31	7.48	7.70	8.25	8.51	8.88	9.23	8.89	8.40	7.95	—
8	8.37	7.97	7.92	8.12	8.62	8.89	9.26	9.63	9.67	9.42	9.01	8.53	—
9	9.09	8.84	8.50	8.25	8.36	9.26	10.12	10.97	10.17	10.15	9.52	9.12	—
10	9.16	8.56	8.12	7.94	8.24	8.70	8.76	9.12	9.54	9.51	9.36	8.59	—
11	8.58	8.26	7.75	7.52	7.69	7.95	8.47	8.91	9.16	9.04	8.68	8.13	—
12	8.19	7.84	7.56	7.78	7.90	8.01	8.12	8.42	8.71	8.53	8.20	7.73	—
13	7.76	7.50	6.86	6.86	7.37	7.52	7.91	8.46	8.42	8.46	8.13	7.66	—
14	7.70	7.34	6.76	6.69	6.81	6.92	7.41	8.12	8.05	7.79	7.68	7.15	—
15	7.84	7.10	6.81	6.52	6.66	6.89	7.14	7.71	7.84	7.38	6.63	6.17	—
16	6.38	6.04	5.95	5.86	6.08	6.25	6.82	7.46	7.80	7.69	7.11	6.36	—
17	7.03	6.79	6.39	6.34	6.71	6.84	7.41	7.69	7.80	7.39	6.86	6.54	—
18	8.04	7.75	7.30	7.28	7.49	8.05	8.55	8.89	9.04	9.05	8.29	7.09	—
19	8.04	7.65	7.36	7.39	7.57	8.03	8.49	8.34	8.50	8.64	8.30	7.48	—
20	9.18	8.53	8.38	8.48	8.65	8.79	9.12	9.79	10.21	10.05	9.63	8.94	—
21	8.10	7.91	7.61	7.66	7.63	7.65	8.35	8.76	9.16	9.09	8.63	7.92	—
22	8.73	8.55	8.31	8.11	8.29	8.60	9.21	9.70	9.70	9.46	9.14	8.52	—
23	9.00	8.79	8.41	8.45	8.86	9.02	9.19	9.80	10.03	9.88	9.64	9.24	—
24	9.91	9.64	9.24	9.15	9.26	9.74	10.11	10.40	10.94	11.11	10.84	10.60	—
25	10.59	10.11	9.64	9.69	9.81	9.82	10.21	10.86	10.80	10.44	9.94	9.27	—
26	9.50	9.15	8.85	8.66	8.98	9.21	9.71	10.41	10.55	10.47	10.18	9.55	—
27	9.56	9.19	8.88	8.90	8.84	8.92	9.24	9.89	9.86	9.75	9.39	8.76	—
28	9.21	8.65	8.51	8.26	8.57	8.62	9.16	9.56	9.84	9.65	9.14	8.53	—
29	9.48	9.00	8.41	8.03	8.04	8.26	8.90	9.66	10.06	10.19	9.88	9.61	—
30	9.30	8.90	8.76	8.78	8.94	9.15	9.66	10.31	10.55	10.36	9.99	9.58	—
31	9.93	9.34	9.05	8.91	9.24	9.36	9.79	10.02	10.46	10.15	9.88	9.34	—
Hourly Means.	8.86	8.47	8.12	8.06	8.23	8.51	8.93	9.42	9.56	9.44	9.06	8.52	—

JULY.

Mean Batavia Time.	1 P M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.29	7.70	7.39	7.44	7.76	8.05	8.36	8.57	8.81	8.78	8.98	9.00	8.75
2	8.61	8.05	7.72	7.59	8.40	8.89	8.95	9.97	10.21	10.10	10.26	10.28	9.07
3	9.11	8.66	7.82	7.84	8.15	8.34	8.74	9.54	9.85	10.25	10.33	10.35	9.54
4	9.28	8.63	8.15	8.10	8.51	9.00	9.43	9.79	10.09	10.05	10.06	10.00	9.56
5	9.21	8.68	8.33	8.48	8.49	8.71	9.12	9.33	9.56	9.64	9.96	9.83	9.25
6	7.97	7.48	6.87	7.26	7.49	7.90	8.30	8.66	8.74	9.14	8.80	8.79	8.56
7	7.24	6.34	5.98	6.12	6.98	7.98	8.36	8.56	8.94	8.95	8.91	8.42	7.97
8	8.01	7.60	7.30	7.30	7.63	8.01	8.72	9.35	9.91	9.91	9.87	9.84	8.70
9	8.25	7.69	7.20	7.10	7.36	7.80	8.41	8.99	9.51	9.77	9.55	9.36	8.89
10	7.98	7.25	6.69	6.86	7.20	7.65	8.45	8.99	9.17	9.39	9.41	8.90	8.48
11	7.28	6.61	6.22	6.12	6.61	6.98	7.57	8.03	8.44	8.99	8.85	8.63	7.94
12	7.10	6.55	6.40	6.35	6.47	6.55	6.88	7.38	7.67	7.75	7.83	8.00	7.58
13	6.85	5.99	5.49	5.45	5.62	6.13	6.57	7.36	7.91	8.24	7.90	7.82	7.26
14	6.75	6.03	5.97	5.82	6.86	6.95	6.84	7.55	7.70	7.96	7.93	7.94	7.20
15	5.74	5.45	5.25	5.15	5.49	5.77	5.83	6.38	6.88	7.03	6.99	6.60	6.55
16	5.72	5.19	4.86	4.80	5.10	5.72	6.32	6.72	6.93	7.23	7.20	7.23	6.37
17	6.10	5.56	5.36	5.40	5.90	6.53	7.63	8.33	8.64	8.65	8.33	8.35	7.02
18	6.47	5.87	5.66	5.72	6.09	6.42	7.13	7.90	8.46	8.52	8.49	8.41	7.58
19	7.00	6.47	6.48	6.81	7.40	8.34	8.59	8.78	9.40	9.75	9.51	9.38	8.07
20	8.14	7.43	7.39	7.52	7.69	8.50	9.08	9.61	9.64	9.60	9.24	8.88	8.85
21	7.42	6.85	6.56	6.57	7.01	7.47	8.10	8.60	9.16	9.34	9.13	9.00	8.07
22	7.97	7.26	6.89	7.00	7.47	7.94	8.63	9.48	9.78	9.64	9.53	9.28	8.63
23	8.87	8.15	7.87	7.59	7.87	8.33	9.02	9.58	9.98	10.40	10.38	10.25	9.11
24	10.09	9.28	9.05	8.77	8.63	8.79	9.20	9.71	10.23	10.62	10.75	10.68	9.86
25	8.56	7.83	7.42	7.14	7.21	7.63	8.54	9.30	9.83	9.88	9.90	9.88	9.35
26	8.71	8.09	7.63	7.38	7.43	7.85	8.19	9.00	9.50	9.70	9.89	10.15	9.11
27	8.20	7.66	7.35	7.27	7.72	8.10	8.37	8.84	9.36	9.74	9.73	9.58	8.88
28	7.85	7.28	6.97	7.12	7.37	7.60	8.06	8.82	9.16	9.63	9.70	9.70	8.62
29	9.20	8.59	7.98	7.79	7.66	7.83	8.07	8.75	9.04	9.37	9.29	9.35	8.85
30	8.77	8.12	7.97	7.57	7.63	8.78	9.19	9.97	10.24	10.26	10.40	10.38	9.32
31	8.63	7.75	7.40	7.35	7.67	7.76	7.83	8.35	9.12	9.13	9.18	9.00	8.94
Hourly Means.	7.92	7.29	6.96	6.93	7.25	7.69	8.14	8.72	9.09	9.27	9.23	9.14	8.45

STANDARD THERMOMETER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY. 1	75.7	75.5	75.2	75.2	75.0	74.8	75.0	76.1	78.8	81.2	83.0	85.0	—
2	75.7	75.3	74.5	74.5	74.3	73.8	74.0	77.0	80.9	83.5	85.4	86.6	—
3	73.2	73.7	73.1	72.6	72.6	72.3	73.0	75.2	79.0	82.2	84.0	85.5	—
4	76.4	75.9	75.4	75.2	74.8	74.4	74.5	75.2	78.9	82.0	82.0	82.5	—
5	74.8	74.6	74.6	74.4	74.0	73.6	73.6	75.2	77.4	79.0	80.6	81.2	—
6	75.8	75.2	74.8	74.1	73.6	73.2	73.6	76.0	79.0	81.0	83.1	83.5	—
7	76.2	75.7	74.9	75.1	75.1	75.1	74.9	75.7	78.0	79.6	82.2	82.0	—
8	73.5	73.3	73.3	73.0	73.0	73.0	72.9	72.5	73.1	74.5	75.4	76.1	—
9	74.0	74.0	74.0	74.0	73.8	74.0	73.7	73.0	73.0	73.7	75.0	76.6	—
10	75.0	75.0	74.5	74.1	74.0	74.1	74.0	76.4	79.2	80.7	80.9	81.7	—
11	75.8	75.0	74.5	73.7	73.5	72.8	73.1	75.2	79.8	82.5	84.0	85.6	—
12	76.0	75.8	75.1	74.8	74.4	74.4	74.2	74.8	77.0	78.4	79.6	80.8	—
13	76.0	75.4	75.1	75.1	75.0	74.4	74.0	74.9	77.1	79.1	80.3	81.7	—
14	76.8	76.0	75.6	75.1	75.0	74.7	74.5	76.5	78.5	81.6	82.0	83.2	—
15	75.0	75.0	74.5	74.0	73.6	73.4	73.7	75.2	78.9	81.0	83.5	84.0	—
16	76.2	75.5	75.1	74.9	74.7	74.3	75.0	77.0	79.0	80.6	82.0	83.5	—
17	77.5	77.0	76.7	76.5	76.3	75.9	75.6	77.0	79.6	80.7	83.6	85.4	—
18	76.0	76.0	76.0	76.0	76.0	75.8	76.0	77.0	79.2	79.6	81.0	84.0	—
19	78.7	78.1	77.5	77.0	76.8	76.6	76.5	78.2	79.8	81.0	84.0	84.9	—
20	75.0	75.0	74.5	74.7	74.5	74.2	74.1	75.4	77.8	78.7	81.5	83.4	—
21	75.8	75.8	75.6	75.2	75.0	75.0	75.3	77.5	80.0	82.2	83.5	84.8	—
22	76.6	76.6	76.2	76.1	75.7	75.3	75.8	77.6	80.0	81.6	83.6	85.8	—
23	75.4	75.1	75.0	74.6	74.0	73.7	73.8	75.2	77.1	79.2	81.1	82.6	—
24	76.2	76.0	76.0	75.6	75.0	74.8	75.1	77.2	80.0	81.5	81.6	78.9	—
25	76.0	75.2	74.8	74.2	74.0	73.0	73.2	75.3	78.5	81.3	84.0	85.4	—
26	76.2	76.2	75.5	75.1	74.5	74.1	74.5	75.5	78.6	81.6	83.2	84.0	—
27	75.3	74.6	74.2	73.4	72.9	72.0	72.3	74.6	78.2	81.2	83.6	84.8	—
28	75.0	74.6	74.4	74.4	73.6	73.2	73.2	74.5	78.8	81.7	83.5	85.0	—
29	75.5	75.0	74.6	74.4	74.2	73.8	73.6	74.6	76.8	80.2	82.1	83.6	—
30	77.2	76.8	76.7	76.3	76.0	75.5	75.3	77.8	80.4	82.8	83.6	85.8	—
31	74.8	74.6	74.2	74.0	73.2	73.0	73.6	76.4	80.0	83.5	85.0	86.1	—
Hourly Means.	75.72	75.40	75.04	74.75	74.45	74.14	74.25	75.80	78.46	80.56	82.19	83.35	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY. 1	86.0	86.7	86.7	85.5	85.0	82.7	81.2	80.0	78.9	77.6	76.7	76.2	79.74
2	85.8	83.0	84.2	83.9	82.2	77.8	75.0	74.7	74.3	74.2	74.0	73.6	78.26
3	85.0	84.4	85.2	84.1	83.8	82.2	81.1	79.6	78.5	77.8	77.0	76.8	78.83
4	83.0	84.8	82.8	83.6	82.5	79.0	78.0	76.6	75.8	75.4	75.0	74.5	78.26
5	80.7	80.6	80.7	80.5	79.9	79.0	78.0	77.5	76.9	76.4	76.3	76.3	77.33
6	83.3	83.7	83.8	83.0	82.0	80.4	79.5	78.7	77.9	77.3	76.6	76.4	78.56
7	82.0	84.2	84.4	84.2	81.4	74.0	73.8	74.1	74.0	73.4	73.5	73.5	77.38
8	76.3	76.3	76.5	76.5	76.2	75.6	75.4	75.1	74.8	74.5	74.5	74.2	74.56
9	77.6	78.4	79.0	78.7	78.2	77.6	77.0	76.8	76.5	76.1	75.5	75.1	75.64
10	83.0	84.7	84.1	83.4	82.0	80.8	79.8	79.0	78.6	78.2	77.3	76.7	78.63
11	86.7	87.1	86.4	86.2	84.6	82.0	80.0	78.3	77.3	77.1	76.7	76.4	79.35
12	83.2	83.6	83.0	82.2	81.1	80.2	79.1	78.1	77.6	76.8	76.6	76.2	78.04
13	82.8	84.0	85.4	84.7	82.4	81.4	80.0	79.2	79.0	78.2	77.7	77.7	78.78
14	84.0	83.7	83.1	83.6	79.0	77.3	76.1	75.5	75.1	75.2	75.2	74.8	78.00
15	84.9	83.9	83.6	83.2	82.8	81.9	80.2	79.1	78.3	78.0	77.8	77.4	78.87
16	84.2	84.4	85.0	84.2	84.2	82.6	81.6	80.2	79.2	78.7	78.3	78.2	79.53
17	87.0	87.5	86.8	87.1	86.0	84.4	80.8	78.4	77.2	76.9	76.6	76.2	80.28
18	85.3	87.8	88.4	88.4	86.6	84.0	83.0	81.2	80.6	79.5	79.0	79.0	80.64
19	87.0	88.5	86.1	84.2	78.5	76.3	76.0	76.0	75.2	74.9	74.9	75.0	79.24
20	84.5	84.8	80.0	82.1	81.2	80.2	79.2	78.5	78.1	77.0	76.3	76.3	78.21
21	85.3	85.3	85.3	82.2	83.2	81.8	80.7	80.0	79.5	78.8	77.9	77.3	79.71
22	86.2	87.0	86.2	85.0	84.2	82.1	81.0	80.2	78.7	77.9	76.9	76.2	80.10
23	83.2	83.4	83.6	83.0	81.3	80.8	80.0	79.0	78.1	77.2	77.0	76.8	78.34
24	81.0	83.6	83.4	83.2	82.9	81.5	79.8	78.8	77.8	76.8	76.2	76.0	78.70
25	86.0	86.1	85.0	84.3	83.5	81.9	80.1	79.0	78.2	77.5	76.5	76.4	79.14
26	85.0	85.4	85.0	83.8	83.2	82.0	81.0	80.5	79.2	77.8	76.5	76.1	79.35
27	86.2	86.0	85.0	85.0	83.7	81.6	80.4	78.5	77.3	77.1	76.3	75.4	78.73
28	85.3	86.8	86.8	84.8	83.2	81.8	80.6	79.4	78.2	77.0	76.6	76.0	79.10
29	83.8	83.5	82.7	82.2	82.2	81.7	79.8	79.0	78.2	77.6	77.0	77.0	78.46
30	87.2	87.2	85.4	84.2	83.5	82.5	79.8	77.2	77.2	77.0	76.6	75.8	79.91
31	86.9	86.7	86.9	85.8	84.1	82.4	81.0	79.5	78.6	77.7	76.8	76.2	79.63
Hourly Means.	84.14	84.62	84.21	83.64	82.41	80.63	79.32	78.31	77.57	76.95	76.45	76.12	78.69

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	966	966	966	966	966	956	947	940	862	776	675	643	—
	2	898	905	913	913	913	921	912	859	755	699	640	632	—
	3	955	947	955	964	964	946	937	905	823	752	722	673	—
	4	940	948	957	956	956	947	939	922	839	764	785	766	—
	5	956	965	965	956	965	946	965	939	907	809	783	791	—
	6	957	957	956	965	965	955	947	923	876	783	704	719	—
	7	940	940	956	947	930	939	939	915	893	848	744	778	—
	8	965	965	965	955	955	964	964	964	973	930	931	923	—
	9	965	956	956	956	965	965	965	964	955	956	922	899	—
	10	947	947	930	921	904	912	904	866	824	783	761	742	—
	11	898	922	930	947	946	955	955	881	743	675	666	609	—
	12	940	931	947	939	947	956	956	913	875	799	795	761	—
	13	940	948	956	956	947	947	956	939	900	848	811	750	—
	14	940	948	948	956	956	939	930	906	878	764	758	740	—
	15	914	914	930	930	938	938	921	897	784	761	659	707	—
	16	931	939	947	939	939	939	922	883	847	782	771	719	—
	17	917	932	916	915	915	923	931	916	833	805	713	667	—
	18	915	915	923	923	923	940	923	916	840	833	790	707	—
	19	918	917	916	924	924	924	924	877	825	813	735	690	—
	20	930	939	965	956	956	947	956	931	868	847	763	693	—
	21	940	931	940	947	947	947	914	844	818	737	705	683	—
	22	932	924	932	940	931	931	906	860	818	799	699	655	—
	23	922	930	930	939	947	947	947	922	883	824	784	752	—
	24	940	940	940	931	947	947	947	867	834	749	736	832	—
	25	931	947	947	956	930	946	946	914	853	741	634	686	—
	26	923	923	939	930	939	930	921	872	822	749	712	687	—
	27	888	862	853	877	868	884	875	805	724	623	595	587	—
	28	904	921	921	921	929	937	929	897	763	658	627	546	—
	29	898	904	888	878	861	853	877	879	804	702	647	589	—
	30	916	924	916	915	915	922	930	899	745	710	679	654	—
	31	904	904	912	903	929	929	903	842	773	665	632	649	—
Hourly Means.		930	933	936	936	936	937	932	899	837	774	728	707	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	610	589	601	634	703	765	805	841	847	860	866	882	818
	2	733	875	742	741	852	907	913	930	947	938	947	946	851
	3	697	722	718	728	734	772	827	886	893	917	932	932	846
	4	774	717	816	782	838	909	917	932	931	939	939	956	882
	5	783	819	820	819	871	886	908	917	940	948	948	948	898
	6	705	734	748	745	777	841	855	877	901	916	940	924	861
	7	807	722	702	743	783	903	956	956	965	964	973	973	884
	8	906	906	874	874	899	889	914	939	947	956	956	965	937
	9	820	893	771	854	877	907	916	899	932	931	948	947	922
	10	770	644	675	705	758	805	825	878	869	876	891	891	835
	11	583	562	545	588	636	729	803	861	891	924	940	940	797
	12	725	685	752	786	813	849	886	908	917	940	940	948	871
	13	738	707	660	724	815	858	910	918	918	926	933	933	872
	14	762	769	788	734	815	851	889	914	914	905	905	913	868
	15	670	700	740	753	745	785	864	902	917	925	925	932	840
	16	701	702	670	721	694	787	829	841	878	901	885	885	836
	17	628	630	684	678	694	763	797	845	883	899	915	915	821
	18	671	619	616	628	722	749	787	836	849	886	909	909	822
	19	665	616	694	742	869	906	923	948	939	930	930	922	853
	20	722	717	879	758	762	826	870	893	901	916	940	940	870
	21	666	653	672	807	767	829	850	848	870	902	908	916	835
	22	669	639	650	697	722	737	769	788	838	867	906	906	813
	23	747	754	754	759	783	842	879	870	917	932	924	932	868
	24	776	740	754	753	774	828	879	877	884	916	931	931	861
	25	624	618	639	649	672	735	787	862	868	892	915	923	817
	26	645	646	619	665	704	757	812	826	847	860	850	873	810
	27	544	592	600	605	626	734	766	829	858	874	890	905	761
	28	570	602	577	650	663	719	752	801	814	851	866	881	779
	29	647	652	716	743	758	777	840	869	884	892	907	916	808
	30	622	622	653	701	713	722	785	827	866	883	882	898	804
	31	620	632	639	635	660	737	768	832	853	875	899	906	792
Hourly Means.		697	693	702	723	758	810	848	876	893	908	917	922	843

DIRECTION OF THE WIND.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
1	C	NE	NE	NE	NE	NE	NE	SE	E	ESE	ESE	ESE
2	E	E	E	E	ESE	SE	SSE	SSE	SE	E	E	ESE
3	SW	SW	C	C	SW	SW	SW	SW	SSW	SE	ESE	E
4	C	C	E	E	ESE	ESE	C	ESE	SE	ESE	E	E
5	C	C	C	C	C	WSW	C	WSW	WSW	WSW	W	NNE
6	C	N	C	C	C	C	C	N	NNW	W	NE	WSW
7	NE	NE	NE	C	NE	C	C	C	NE	ENE	E	E
8	C	C	S	W	NW	NW	NW	W	SW	SSW	SSW	S
9	C	ESE	ESE	C	C	ESE	E	WNW	ENE	SSW	SSW	SSE
10	ESE	ESE	ESE	ESE	SSE	SSE	SSE	SSE	S	S	SE	E
11	ESE	ESE	C	C	C	C	ESE	ESE	SE	E	E	E
12	ENE	ENE	C	C	C	C	ENE	ENE	SE	SE	E	E
13	C	C	N	C	N	N	N	N	N	N	NE	SE
14	C	C	NE	NE	NE	NE	NE	NE	NE	W	NE	ENE
15	SW	SW	SW	C	C	SW	SW	SW	SW	ESE	E	NE
16	S	S	S	S	S	C	S	S	S	S	E	ESE
17	NE	NE	NE	NE	C	C	C	C	NE	SSE	SE	SSE
18	SW	SW	SW	SW	SW	SSE	SE	E	ESE	E	SE	ESE
19	C	E	E	E	E	E	C	E	E	E	E	E
20	C	C	C	C	C	C	C	C	SSE	S	S	ENE
21	C	C	C	C	C	C	ENE	SE	SE	ESE	E	ESE
22	C	C	ENE	C	C	C	NE	W	NW	W	NW	NW
23	C	C	C	C	C	W	W	W	W	S	ESE	ESE
24	NE	NE	ENE	C	C	C	C	ESE	E	E	E	ENE
25	C	ENE	ENE	ENE	ENE	ENE	ENE	C	ENE	ENE	S	NE
26	C	NNE	NNE	N	N	N	N	NW	WSW	SW	SW	WSW
27	S	S	S	S	S	S	S	S	S	SW	ESE	E
28	NE	NE	NE	NE	NE	C	C	NE	ESE	SE	S	WNW
29	NE	NE	NE	NE	NE	NE	C	NE	NE	WSW	WSW	NNE
30	C	C	NE	C	C	NE	NE	SSW	S	SSW	NW	NNE
31	SSW	SSW	SSW	SSW	C	C	SSW	SSW	W	E	E	ENE

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
1	ESE	E	E	E	E	E	E	E	E	E	E	E
2	NE	SE	NE	NNE	NE	NNE	SW	SW	SW	SW	C	C
3	ENE	E	E	E	E	E	E	C	C	C	C	E
4	E	NE	N	NE	N	WSW	WSW	WSW	WSW	C	C	C
5	NNE	NNE	NE	NE	N	C	C	C	C	N	C	C
6	NW	NNE	NNW	N	NW	NNW	C	C	C	C	NNW	NE
7	ENE	E	ENE	N	SW	S	SSE	SSE	SSE	SSE	SSE	C
8	ESE	E	ESE	ESE	ESE	ESE	C	C	ESE	ESE	ESE	C
9	SSE	SE	ESE	ESE	C	C	ESE	C	C	C	C	ESE
10	E	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE
11	ENE	ENE	E	ENE	ENE	ENE	C	C	C	ENE	ENE	ENE
12	E	NE	N	N	N	C	C	C	C	C	C	C
13	E	E	ENE	NE	NE	C	C	C	C	C	C	C
14	NE	NE	NNE	NE	SW	SW	SW	SW	SW	SW	SW	SW
15	NNE	NNE	NNE	NNE	NE	NE	C	C	C	C	C	NE
16	SE	E	E	ENE	NE	NE	C	C	C	C	C	C
17	ENE	NE	NNE	E	E	ENE	SW	SW	SW	SW	SW	SW
18	ESE	E	ESE	E	ENE	E	E	E	E	C	C	C
19	ENE	ENE	NE	NE	NNE	NNE	NE	NE	S	S	S	S
20	ENE	NE	N	ENE	ENE	ENE	ENE	C	C	C	C	C
21	E	ESE	E	NE	NE	C	NE	ENE	C	C	C	C
22	NW	WNW	NW	WNW	WNW	W	W	W	W	C	C	C
23	ENE	NE	NNE	NE	NE	NE	C	C	C	C	C	NE
24	NE	NE	N	NE	NE	NE	NE	NE	ENE	C	C	C
25	N	NE	N	NNE	NNE	NNE	C	C	C	C	C	C
26	N	NNE	NNE	N	N	NNW	C	NNW	NNW	SSW	S	S
27	ENE	NE	N	N	NE	NE	NE	C	C	NE	NE	NE
28	SSW	NE	NNE	NE	NE	NNE	NE	C	NE	C	C	NE
29	NE	NE	NE	NE	NE	NE	C	C	C	C	NE	NE
30	NE	NE	N	NE	NE	NE	NE	SSW	SSW	SSW	SSW	SSW
31	NE	N	NE	ENE	ENE	ENE	ENE	ENE	ENE	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY.	1	0.0	1.6	1.6	0.8	0.8	1.6	1.6	3.2	8.0	11.3	14.5	13.7	—
	2	1.6	0.8	2.4	1.6	3.2	2.4	1.6	4.0	9.7	12.1	14.5	12.9	—
	3	0.8	1.6	0.0	0.0	0.8	0.8	0.8	2.4	5.6	9.7	8.9	11.3	—
	4	0.0	0.0	0.8	0.8	1.6	1.6	0.0	0.8	3.2	6.4	8.0	8.9	—
	5	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.8	3.2	4.8	—
	6	0.0	0.8	0.0	0.0	0.0	0.0	0.0	1.6	2.4	2.4	3.2	3.2	—
	7	1.6	2.4	1.6	0.0	1.6	0.0	0.0	0.0	2.4	4.8	7.2	8.0	—
	8	0.0	0.0	1.6	3.2	4.8	1.6	1.6	4.0	3.2	7.2	4.0	3.2	—
	9	0.0	1.6	0.8	0.0	0.0	3.2	4.8	4.0	6.4	4.8	3.2	6.4	—
	10	0.8	0.8	1.6	0.8	4.8	4.0	3.2	4.0	4.8	4.0	6.4	8.0	—
	11	1.6	0.8	0.0	0.0	0.0	0.0	0.8	3.2	8.0	12.9	16.1	14.5	—
	12	0.8	0.8	0.0	0.0	0.0	0.0	1.6	2.4	4.8	6.4	4.8	4.8	—
	13	0.0	0.0	1.6	0.0	1.6	3.2	1.6	2.4	1.6	1.6	3.2	1.6	—
	14	0.0	0.0	1.6	0.8	0.8	0.8	0.8	0.8	3.2	2.4	6.4	8.0	—
	15	0.8	0.8	0.8	0.0	0.0	2.4	0.8	2.4	4.0	5.6	4.8	8.0	—
	16	4.8	3.2	3.2	1.6	1.6	0.0	0.8	2.4	1.6	1.6	3.2	3.2	—
	17	0.8	1.6	3.2	1.6	0.0	0.0	0.0	0.0	3.2	4.8	6.4	5.6	—
	18	2.4	2.4	0.8	1.6	2.4	3.2	4.0	6.4	9.7	8.9	8.0	13.7	—
	19	0.0	0.8	0.8	0.8	1.6	0.8	0.0	0.8	1.6	0.8	8.0	13.7	—
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	3.2	5.6	—
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.8	8.0	9.7	8.0	—
	22	0.0	0.0	0.8	0.0	0.0	0.0	1.6	3.2	4.8	5.6	7.2	7.2	—
	23	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	4.0	6.4	8.9	—
	24	1.6	3.2	0.8	0.0	0.0	0.0	0.0	2.4	8.9	11.3	11.3	11.3	—
	25	0.0	0.8	2.4	0.8	0.8	1.6	0.8	0.0	2.4	3.2	4.0	6.4	—
	26	0.0	0.8	1.6	0.8	0.8	1.6	3.2	2.4	4.8	3.2	3.2	3.2	—
	27	1.6	3.2	2.4	1.6	1.6	1.6	1.6	3.2	5.6	7.2	6.4	8.9	—
	28	1.6	3.2	1.6	0.8	1.6	0.0	0.0	2.4	3.2	4.8	6.4	4.8	—
	29	1.6	3.2	4.0	3.2	3.2	1.6	0.0	0.8	4.0	3.2	3.2	4.8	—
	30	0.0	0.0	0.8	0.0	0.0	0.8	0.8	3.2	1.6	2.4	2.4	7.2	—
	31	2.4	0.8	1.6	0.8	0.0	0.0	1.6	2.4	4.8	9.7	12.1	11.3	—
Hourly Means.		0.80	1.14	1.24	0.70	1.08	1.11	1.14	2.22	4.22	5.57	6.76	7.78	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY.	1	16.1	13.7	15.3	14.5	12.1	7.2	4.8	1.6	0.8	2.4	3.2	1.6	6.33
	2	13.7	8.0	11.3	9.7	12.9	3.2	6.4	2.4	3.2	1.6	0.0	0.0	5.80
	3	12.9	11.3	12.1	9.7	8.9	4.8	1.6	0.0	0.0	0.0	0.0	0.8	4.37
	4	7.2	8.9	9.7	7.2	4.8	0.8	2.4	2.4	1.6	0.0	0.0	0.0	3.21
	5	4.8	4.0	4.8	4.8	1.6	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.33
	6	2.4	6.4	6.4	8.0	4.8	0.8	0.0	0.0	0.0	0.0	0.8	2.4	1.90
	7	6.4	7.2	9.7	11.3	11.3	6.4	2.4	0.8	1.6	1.6	3.2	0.0	3.81
	8	4.8	7.2	8.9	4.8	3.2	1.6	0.0	0.0	0.8	0.8	1.6	0.0	2.84
	9	6.4	8.0	6.4	0.8	0.0	0.0	1.6	0.0	0.0	0.0	0.0	1.6	2.50
	10	11.3	15.3	14.5	14.5	8.0	4.0	2.4	1.6	3.2	2.4	3.2	1.6	5.22
	11	16.1	16.1	14.5	13.7	6.4	0.8	0.0	0.0	0.0	1.6	2.4	3.2	5.53
	12	8.0	6.4	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.17
	13	4.0	8.0	11.3	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.20
	14	8.0	8.9	8.9	8.0	9.7	3.2	3.2	5.6	3.2	1.6	0.8	1.6	3.68
	15	8.0	11.3	9.7	8.0	8.0	3.2	0.0	0.0	0.0	0.0	0.0	2.4	3.38
	16	3.2	2.4	3.2	5.6	4.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.03
	17	8.0	10.5	9.7	12.1	8.9	4.0	8.9	6.4	4.0	3.2	2.4	3.2	4.52
	18	14.5	16.1	14.5	12.1	10.5	6.4	4.0	3.2	0.8	0.0	0.0	0.0	6.07
	19	14.5	18.5	21.7	21.7	18.5	16.9	6.4	3.2	4.0	3.2	4.0	2.4	6.86
	20	7.2	8.9	0.8	12.1	8.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	2.11
	21	9.7	12.1	8.9	3.2	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0	2.98
	22	8.0	8.9	8.0	4.0	3.2	3.2	0.8	1.6	0.8	0.0	0.0	0.0	2.87
	23	9.7	7.2	7.2	9.7	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.8	2.48
	24	10.5	12.1	9.7	9.7	8.0	3.2	0.8	0.8	0.8	0.0	0.0	0.0	4.43
	25	7.2	9.7	8.0	8.0	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.64
	26	8.0	12.9	9.7	9.7	6.4	3.2	0.0	0.8	4.0	5.6	4.8	2.4	3.88
	27	10.5	12.9	10.5	9.7	9.7	5.6	1.6	0.0	0.0	0.8	0.8	0.8	4.49
	28	3.2	6.4	9.7	13.7	10.5	4.8	1.6	0.0	0.8	0.0	0.0	0.8	3.41
	29	6.4	7.2	8.0	5.6	4.8	0.8	0.0	0.0	0.0	0.0	1.6	0.8	2.83
	30	7.2	11.3	11.3	12.9	8.0	3.2	4.0	6.4	1.6	0.8	1.6	3.2	3.78
	31	13.7	12.1	16.1	15.3	11.3	4.0	3.2	1.6	0.8	0.0	0.0	0.0	5.23
Hourly Means.		8.76	10.00	9.90	9.40	7.00	3.18	1.86	1.29	1.03	0.85	0.98	0.95	3.71

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY. 1	10	10	9	10	10	10	10	9	9	9	9	8	—
2	2	3	1	1	1	3	5	3	2	2	4	6	—
3	3	9	5	4	6	5	4	2	2	3	6	4	—
4	2	1	1	1	2	4	9	10	6	10	10	9	—
5	2	7	4	1	1	2	4	4	6	9	10	10	—
6	7	8	5	4	2	4	3	2	3	4	4	5	—
7	5	2	4	2	7	7	10	9	8	8	6	9	—
8	10	10	10	10	10	10	10	10	10	10	10	10	—
9	10	10	10	10	10	10	10	10	10	10	10	10	—
10	10	10	10	10	10	10	10	6	7	10	10	10	—
11	2	4	3	3	2	2	2	4	4	4	4	4	—
12	4	9	10	10	10	10	10	10	10	9	9	9	—
13	5	7	10	10	10	10	6	2	6	9	10	9	—
14	3	4	4	5	5	3	6	6	7	7	8	9	—
15	9	9	6	4	4	6	6	9	8	7	7	7	—
16	4	6	8	8	8	7	6	9	10	10	10	10	—
17	10	10	10	10	10	10	10	9	8	5	3	3	—
18	9	10	10	10	10	10	10	9	10	10	9	8	—
19	9	7	3	10	9	10	10	6	10	10	7	9	—
20	9	10	10	10	10	10	7	10	10	10	8	7	—
21	10	10	9	10	10	10	9	9	9	9	7	7	—
22	4	9	9	9	2	9	8	4	3	4	2	7	—
23	4	6	7	5	8	7	8	9	10	10	9	9	—
24	2	2	4	5	3	3	0	1	5	1	9	10	—
25	2	2	1	1	1	2	1	0	0	1	1	2	—
26	5	3	4	6	6	10	10	8	7	6	7	7	—
27	1	2	2	1	2	2	1	0	0	0	1	1	—
28	6	5	6	6	9	7	7	6	4	2	1	2	—
29	5	3	9	9	7	4	2	1	6	5	7	7	—
30	10	9	10	9	9	8	3	4	2	2	4	5	—
31	2	4	3	3	3	4	3	4	4	5	4	6	—
Hourly Means.	5.7	6.5	6.4	6.4	6.4	6.7	6.5	6.0	6.3	6.5	6.6	7.1	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JULY. 1	4	4	5	4	5	3	5	4	3	3	2	2	6.5
2	8	9	5	9	9	10	9	6	5	2	2	2	4.5
3	7	9	9	4	2	2	1	1	1	1	1	2	3.9
4	4	3	6	7	10	10	4	3	4	4	2	2	5.2
5	10	10	10	10	10	10	7	9	8	7	8	7	6.9
6	9	6	4	4	8	9	9	6	7	10	10	10	6.0
7	8	5	5	5	10	10	10	10	10	9	10	10	7.5
8	10	10	10	10	10	10	10	10	10	10	10	10	10.0
9	10	10	10	10	10	10	10	10	10	10	10	10	10.0
10	9	7	9	5	7	6	7	9	8	9	9	2	8.3
11	4	4	3	2	3	3	3	4	4	7	6	7	3.7
12	10	10	10	10	9	9	2	2	2	9	9	9	8.4
13	9	8	6	8	7	6	4	7	7	7	9	8	7.5
14	9	9	9	8	10	10	4	4	5	9	5	8	6.5
15	4	10	9	7	6	6	3	2	2	7	9	7	6.4
16	10	10	9	5	4	5	8	6	9	10	10	10	8.0
17	5	7	7	6	5	6	5	2	4	3	3	5	6.5
18	7	2	3	4	4	6	1	1	1	1	1	9	6.5
19	7	6	9	9	10	10	10	10	10	10	10	10	8.8
20	6	6	10	8	10	7	6	8	6	6	7	8	8.3
21	8	6	9	4	5	4	7	6	9	6	6	4	7.6
22	7	7	4	4	4	9	10	8	2	2	1	1	5.4
23	10	9	8	10	3	4	1	1	1	1	1	1	5.9
24	8	6	7	8	6	6	2	2	1	2	3	4	4.2
25	1	0	0	1	0	1	2	2	3	3	4	2	1.4
26	3	2	3	3	3	5	9	8	6	4	4	6	5.6
27	4	1	1	1	2	1	2	2	1	3	3	2	1.5
28	8	4	2	1	0	2	3	2	1	1	1	0	3.6
29	8	8	8	7	7	8	5	5	10	10	8	10	6.6
30	2	6	5	6	7	9	3	3	4	4	4	2	5.4
31	7	4	4	3	3	2	1	0	0	0	1	2	3.0
Hourly Means.	7.0	6.4	6.4	5.9	6.1	6.4	5.3	4.9	5.0	5.5	5.5	5.5	6.13

DURATION OF SUNSHINE.

JULY.

Mean Batavia Time.	8–8½ A.M.	8½–9	9–9½	9½–10	10–10½	10½–11	11–11½	11½–12	12–12½ P.M.	12½–1	1–1½	1½–2	2–2½	2½–3	3–3½	3½–4	Daily and Monthly Means.
1	0	1	4	4	8	7	4	2	5	10	10	8	8	8	4	8	5.7
2	8	10	10	10	10	9	9	6	4	5	1	3	6	6	6	2	6.6
3	7	10	10	10	6	6	3	3	4	3	6	1	7	4	5	4	5.6
4	4	5	4	5	1	0	1	0	0	6	7	10	2	6	5	6	3.9
5	3	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0.8
6	10	10	10	6	8	10	7	4	1	0	0	5	7	7	7	4	6.0
7	0	1	6	2	2	2	7	2	0	0	4	6	8	6	5	10	3.8
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
10	7	6	5	4	0	0	0	0	1	1	3	3	1	1	1	4	2.3
11	10	10	10	10	10	8	9	7	7	8	8	8	10	8	5	7	8.4
12	0	0	0	0	0	0	0	0	1	2	2	0	1	1	1	1	0.6
13	3	1	2	2	0	0	0	0	0	1	3	1	4	6	7	4	2.1
14	3	0	8	9	3	0	1	1	0	0	4	2	0	0	0	6	2.3
15	3	7	3	5	9	8	2	1	2	7	8	1	1	2	0	1	3.8
16	8	2	1	1	1	0	0	1	2	1	1	1	2	2	1	7	1.9
17	2	4	4	4	9	10	9	8	9	9	8	7	8	7	6	6	6.9
18	0	2	0	0	0	0	3	3	2	2	8	10	8	9	4	6	3.6
19	8	7	0	0	0	5	1	5	7	10	8	6	4	4	1	0	4.1
20	1	1	0	0	0	6	6	1	1	2	4	4	5	0	0	0	1.9
21	1	0	3	1	1	0	6	1	2	5	4	6	2	4	4	8	3.0
22	9	9	9	9	9	9	8	7	8	7	6	5	8	9	7	2	7.6
23	0	0	0	2	1	0	1	2	3	0	0	3	3	6	7	2	1.9
24	4	3	6	6	5	1	0	0	1	2	4	8	4	6	8	6	4.0
25	10	10	10	10	10	10	10	6	10	10	10	10	10	10	10	10	9.8
26	6	9	5	9	8	4	7	4	1	4	10	10	10	10	10	8	7.2
27	10	10	10	10	10	10	10	10	10	10	8	8	10	10	10	10	9.8
28	7	10	10	10	10	10	10	9	7	4	4	10	10	10	10	10	8.8
29	0	1	4	8	9	5	1	2	1	0	1	2	1	0	2	0	2.3
30	10	9	10	10	10	3	6	8	8	10	8	3	6	6	2	2	6.9
31	7	10	8	10	10	9	10	8	3	6	2	8	9	8	7	8	7.7
Means.	4.5	4.9	5.0	5.1	4.9	4.3	4.2	3.3	3.2	4.0	4.6	4.8	5.0	5.0	4.4	4.6	4.49

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

JULY.

Mean Batavia Time.	7h30 A. M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	25.4	29.4	31.1	40.9	38.0	49.0	49.9	46.6	49.4	49.8	48.5	51.9	50.3	47.4	48.4	46.4	43.4	39.4	40.4
2	33.0	42.2	44.8	47.7	48.1	50.6	51.0	51.4	51.7	51.3	43.6	51.9	38.0	—	38.5	40.0	36.8	41.2	31.6
3	34.5	41.8	44.2	45.8	47.3	48.5	51.1	48.3	41.8	51.8	48.9	46.4	47.0	40.1	47.4	42.8	33.4	37.9	35.0
4	24.5	27.4	34.3	40.9	40.2	43.4	37.6	42.5	40.6	36.9	38.1	45.9	51.7	50.9	48.4	38.9	—	42.3	37.9
5	27.3	30.9	35.2	37.6	40.4	39.4	39.4	39.2	39.7	35.8	35.6	32.4	31.2	30.9	30.8	31.0	31.1	28.8	29.4
6	33.9	42.0	45.3	47.9	48.7	45.3	50.0	56.0	48.0	40.0	45.0	34.2	33.1	41.0	44.4	44.6	42.0	40.5	35.6
7	25.4	29.5	30.7	38.6	39.8	41.3	43.8	50.4	49.5	33.1	33.4	40.8	43.4	50.9	50.4	45.0	38.6	46.9	37.9
8	—	—	—	—	27.2	—	30.2	—	—	—	27.9	28.4	28.6	29.7	29.9	29.6	29.4	28.9	27.6
9	—		—	24.3	26.4	29.5	29.3	31.4	32.3	34.9	36.3	30.9	31.6	34.1	34.3	35.3	31.9	30.1	29.1
10	27.2	40.4	42.2	44.4	41.8	38.4	37.3	36.3	36.6	37.4	39.9	45.4	45.6	49.0	40.4	40.4	38.5	44.9	35.4
11	31.4	40.8	45.0	44.7	48.5	49.6	50.2	50.4	50.3	51.7	51.2	51.9	51.9	51.4	50.9	48.1	44.1	46.3	37.5
12	24.7	28.4	29.7	30.8	32.6	36.1	37.7	38.7	38.7	40.5	44.4	46.9	45.9	40.0	42.9	38.9	34.7	33.6	33.4
13	23.4	30.7	33.9	36.9	39.0	37.9	36.6	35.1	36.3	38.6	39.0	44.6	45.5	40.4	46.0	46.6	43.9	39.3	34.9
14	29.9	39.4	34.9	42.4	50.3	45.4	40.4	39.9	44.9	43.4	42.5	42.9	46.6	40.3	35.9	37.8	34.4	44.3	33.2
15	24.5	30.9	37.3	39.4	37.6	51.5	51.0	47.9	47.7	49.4	46.2	52.5	53.5	39.9	43.5	43.4	36.9	37.9	32.4
16	28.8	40.9	40.8	37.9	39.1	38.4	41.3	41.7	43.2	47.0	47.2	43.4	42.5	40.1	39.9	41.4	36.5	42.0	37.9
17	25.0	32.4	35.4	38.9	37.8	42.8	48.7	50.7	50.3	53.0	53.0	48.6	51.8	49.0	48.6	48.9	43.8	45.4	36.5
18	24.6	29.9	32.2	33.9	31.7	33.4	32.7	44.9	45.2	43.8	45.1	45.7	50.9	51.0	51.9	50.9	43.4	46.3	40.1
19	25.3	41.4	43.4	32.3	32.9	36.9	38.6	50.4	39.6	45.9	47.7	47.4	53.5	50.4	45.8	40.0	42.9	34.5	28.4
20	26.0	30.6	37.0	35.9	33.7	35.0	38.3	51.7	46.3	51.9	44.5	51.9	51.7	49.4	—	—	36.4	34.8	33.4
21	37.6	32.8	34.6	37.5	44.4	46.6	37.9	48.4	51.6	42.7	44.5	43.5	52.5	40.4	43.5	39.9	36.4	32.0	36.3
22	36.8	44.2	46.4	49.7	49.4	47.8	51.3	52.1	50.8	57.4	56.1	48.5	51.4	48.6	48.9	46.9	40.9	35.8	34.7
23	25.4	28.4	30.3	31.8	32.5	40.0	37.4	40.4	43.9	44.9	47.1	42.1	38.0	42.9	45.3	43.7	43.7	36.9	31.7
24	38.9	38.9	37.9	44.9	45.4	45.4	42.9	34.9	34.9	33.9	41.6	45.2	54.8	52.0	38.4	44.8	49.0	37.0	35.0
25	32.4	42.0	44.6	47.9	48.7	50.9	50.8	52.6	53.3	50.6	52.3	51.7	52.4	50.9	50.9	51.4	49.9	43.9	37.9
26	25.6	38.2	44.2	40.1	48.6	50.4	47.6	49.6	47.1	38.6	38.4	52.9	52.7	51.8	50.6	50.5	48.2	42.4	38.7
27	32.0	40.8	43.8	46.9	48.3	50.0	50.7	49.7	51.1	51.3	52.3	52.5	49.5	50.4	49.9	48.6	48.1	46.0	38.0
28	23.9	39.3	45.3	44.9	48.4	50.4	50.4	51.6	49.4	53.2	55.0	38.6	52.8	53.6	51.8	50.2	48.9	44.7	37.8
29	27.5	28.9	32.2	40.9	43.8	51.4	48.9	43.9	48.8	50.4	44.7	41.4	43.4	39.9	37.4	35.8	36.0	31.9	32.4
30	33.1	41.8	44.3	48.3	48.7	50.9	52.1	47.8	46.2	50.9	53.6	52.9	52.6	52.3	39.4	44.9	42.9	39.9	26.0
31	30.8	41.6	44.8	49.7	50.6	52.4	51.3	52.5	52.9	46.0	46.8	45.9	48.6	51.5	52.7	49.3	44.1	45.4	37.6
Means.	28.92	36.07	38.82	40.79	41.61	44.29	43.75	45.90	45.40	45.20	44.85	45.14	46.55	45.34	44.24	43.20	40.34	39.39	34.64

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

JULY. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	6.0	7.0	6.5	5.5	6.0	4.0	7.5	7.0	3.5	0.0	1.0	1.0	—
2	7.0	6.5	6.0	4.5	5.0	6.5	7.5	4.0	3.0	2.5	2.0	0.5	—
3	6.5	4.0	3.0	4.5	4.5	4.5	6.0	5.5	3.0	2.0	1.5	1.0	—
4	4.5	5.5	5.0	3.5	4.0	4.0	5.0	10.0	6.5	3.0	3.0	2.0	—
5	—	2.5	3.0	3.0	4.0	6.5	6.5	4.5	4.0	2.5	2.5	2.0	—
6	8.5	7.0	4.5	8.0	6.0	7.0	11.0	5.0	2.0	1.0	0.5	1.0	—
7	—	—	—	—	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	—	— 23.0	— 0.5	7.5	0.5	2.5	—
9	8.5	6.5	4.0	3.5	6.0	3.5	0.0	— 2.5	— 6.5	5.5	4.0	3.5	—
10	2.5	2.5	2.0	1.5	1.5	1.5	5.0	6.0	4.0	3.0	3.0	2.0	—
11	4.0	4.0	5.0	7.0	7.5	6.5	11.5	7.5	4.0	2.5	1.5	1.5	—
12	0.0	13.0	9.0	2.5	0.0	6.0	3.0	5.5	5.0	3.5	3.0	2.5	—
13	—	—	—	—	—	—	—	—	—	—	—	—	—
14	—	—	—	—	—	—	—	—	—	—	—	1.5	—
15	3.5	3.0	4.0	4.0	5.0	5.0	3.5	8.0	3.0	1.5	0.5	6.5	—
16	6.0	6.0	5.5	4.5	6.0	5.5	8.5	9.0	1.5	3.5	5.0	5.3	—
17	15.7	10.6	7.4	7.1	8.0	10.1	16.5	19.2	10.4	4.5	4.2	3.8	—
18	7.1	6.8	9.5	11.8	10.4	8.0	9.2	11.2	10.4	5.0	6.2	4.5	—
19	13.0	9.8	9.8	14.8	10.6	8.9	9.8	—	11.5	7.0	4.8	4.3	—
20	7.0	8.1	9.7	11.3	24.2	21.5	23.1	22.0	18.3	9.7	5.9	5.4	—
21	28.5	21.5	22.6	12.9	20.4	12.4	9.7	9.7	6.5	3.2	4.8	4.8	—
22	10.2	10.2	9.7	9.7	9.7	11.9	10.8	—	—	—	—	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—	—
24	—	—	—	—	—	—	—	—	—	—	10.8	8.6	—
25	15.5	16.1	12.9	8.6	12.9	10.2	10.8	10.8	8.6	4.3	3.8	1.1	—
26	15.0	12.9	9.7	9.2	7.0	7.6	6.5	7.6	6.5	3.2	2.7	1.1	—
27	7.6	5.9	5.4	7.6	6.5	8.6	11.3	10.8	8.1	4.3	3.2	3.2	—
28	13.4	7.6	7.6	5.4	5.9	7.0	10.2	10.2	7.0	2.2	4.3	3.8	—
29	8.1	7.0	7.0	6.5	7.0	5.4	7.6	—	—	—	—	—	—
30	—	—	—	—	—	—	—	5.4	2.7	2.2	4.3	1.6	—
31	8.1	8.6	8.6	10.2	11.9	13.4	16.6	10.2	5.9	1.6	2.2	2.2	—
Hourly Means.	9.0	8.0	7.4	7.0	7.9	7.7	9.1	7.1	5.4	3.6	3.4	3.0	—

JULY. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	1.0	1.5	1.5	1.0	1.5	2.0	5.0	5.5	5.0	6.5	6.5	6.0	4.1
2	0.0	— 11.0	2.5	3.0	1.0	4.0	12.5	12.0	5.5	3.5	5.0	6.5	4.2
3	2.0	0.5	2.0	1.5	2.0	2.5	4.5	5.5	6.5	9.0	6.5	7.0	4.0
4	2.0	2.0	— 4.5	3.5	3.0	2.5	—	—	—	—	—	—	3.6
5	2.0	2.5	2.0	1.5	3.0	5.0	8.0	9.0	9.5	8.0	6.0	7.5	4.6
6	—	—	—	—	—	—	—	—	—	—	—	—	5.1
7	—	—	—	—	—	—	—	—	—	—	—	—	0.0
8	2.5	2.5	1.5	1.5	—	—	—	—	11.0	9.5	10.0	8.5	2.6
9	1.5	0.5	2.5	4.0	5.0	8.5	2.5	4.5	2.5	4.0	4.5	1.0	3.2
10	1.5	1.5	2.0	2.0	3.0	3.5	5.5	5.0	5.0	4.5	3.5	4.0	3.2
11	1.5	1.5	1.5	2.0	2.5	3.0	3.0	4.5	5.0	3.5	2.5	2.5	4.0
12	1.0	1.5	2.0	2.5	3.0	4.5	6.5	7.0	7.0	6.0	7.0	4.5	4.4
13	—	—	—	—	—	—	—	—	—	—	—	—	0.0
14	2.0	1.5	4.5	5.0	9.0	9.0	2.5	4.0	5.0	4.0	5.5	3.5	4.4
15	4.5	3.5	3.0	4.5	6.0	6.0	10.0	14.5	11.0	16.0	17.5	11.5	6.5
16	5.6	4.7	6.5	7.4	8.3	8.3	12.4	17.4	18.3	P	20.4	17.1	8.4
17	4.7	3.9	5.3	7.4	10.1	8.8	22.2	9.5	6.5	7.4	6.5	6.5	9.0
18	4.5	2.7	4.7	4.2	4.2	5.0	8.3	16.8	17.1	12.7	15.1	11.8	8.6
19	3.8	2.7	6.5	10.2	— 1.1	P N	P N	19.3	15.5	9.7	7.0	7.6	8.8
20	7.0	7.0	N	9.7	11.3	12.9	19.3	20.4	20.9	29.1	29.1	31.7	15.9
21	5.4	4.3	4.3	— 4.3	7.6	13.4	16.1	13.9	16.6	13.4	10.2	10.2	11.2
22	—	—	—	—	—	—	—	—	—	—	—	—	10.3
23	—	—	—	—	—	—	—	—	—	—	—	—	0.0
24	3.2	2.2	4.3	4.8	4.8	6.5	10.8	9.7	16.6	13.4	16.1	12.9	8.9
25	3.8	3.2	4.3	3.8	3.8	5.9	7.0	12.4	17.2	18.3	13.4	13.9	9.3
26	1.1	2.7	1.6	3.2	3.8	5.4	7.6	9.7	10.2	5.9	5.4	5.9	6.3
27	2.7	2.2	2.2	2.2	2.2	4.3	7.0	10.8	17.2	11.3	10.8	13.9	7.1
28	2.7	1.1	1.6	0.5	1.6	2.2	4.3	6.5	8.1	8.1	8.6	10.2	5.8
29	—	—	—	—	—	—	—	—	—	—	—	—	6.9
30	3.2	— 2.2	3.8	4.8	1.1	14.5	17.7	17.7	2.7	7.0	5.9	5.9	5.8
31	2.2	2.2	1.6	2.7	4.8	5.9	8.6	10.8	14.5	13.9	18.8	17.2	8.5
Hourly Means.	2.9	1.8	2.8	3.5	4.2	6.2	9.2	10.7	10.6	9.8	10.1	9.5	6.65

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

AUGUST. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	8.78	8.29	7.83	7.80	7.89	8.10	8.59	8.96	9.01	8.77	8.45	7.72	—
2	8.02	7.58	7.33	7.10	7.35	7.35	7.88	8.28	8.46	8.41	7.93	7.36	—
3	7.44	7.17	6.66	6.59	6.71	7.03	7.55	8.01	8.19	7.99	7.62	7.04	—
4	7.80	7.28	7.04	7.12	7.29	7.61	7.85	8.09	8.18	7.99	7.41	6.62	—
5	7.22	6.74	6.55	6.58	6.94	7.20	7.90	8.59	8.83	8.66	8.69	8.02	—
6	7.70	7.23	7.15	7.28	7.44	7.81	8.24	8.89	9.14	8.84	8.34	7.83	—
7	8.68	8.25	8.03	7.85	7.51	8.25	9.40	9.98	10.68	10.52	10.21	9.43	—
8	9.80	9.47	9.14	9.00	9.20	9.60	9.94	9.96	10.29	10.09	9.49	9.22	—
9	10.11	9.69	9.68	9.30	9.44	9.59	9.86	10.35	10.49	10.19	9.68	9.14	—
10	9.57	9.20	9.03	8.90	9.01	9.36	9.96	10.75	10.69	10.41	9.52	8.46	—
11	9.83	9.29	8.94	8.79	8.79	9.05	9.70	10.08	10.10	9.90	9.32	8.62	—
12	11.09	10.73	10.45	10.65	10.75	10.98	11.49	11.69	11.79	11.60	11.04	10.38	—
13	11.08	10.78	10.45	10.23	10.64	10.85	11.00	11.45	11.60	11.46	10.92	10.32	—
14	10.15	9.84	9.71	9.80	10.05	10.22	10.51	10.49	10.60	10.25	9.65	9.10	—
15	9.67	9.28	8.95	8.89	9.11	9.34	9.96	10.28	10.50	10.24	10.10	9.45	—
16	10.58	10.11	9.69	9.75	9.79	10.11	10.54	10.91	10.99	10.72	10.18	9.57	—
17	11.36	11.11	11.01	10.84	11.30	11.81	12.34	12.76	12.85	12.59	11.97	11.13	—
18	11.63	11.26	10.94	10.95	11.38	11.81	12.24	12.46	12.75	12.29	11.80	10.99	—
19	10.99	10.79	10.45	10.21	10.35	10.96	11.18	11.68	11.48	11.06	10.40	9.72	—
20	10.65	10.27	10.05	10.02	10.19	10.46	10.93	11.05	11.07	10.86	10.18	9.54	—
21	9.95	9.58	9.30	9.09	9.36	9.86	10.24	10.36	10.39	10.03	9.65	8.96	—
22	9.16	8.78	8.30	8.41	8.60	8.96	9.57	9.75	9.86	9.66	9.12	8.41	—
23	9.62	9.11	8.79	8.90	9.06	9.18	9.80	10.11	10.25	10.15	9.45	8.55	—
24	9.98	9.79	9.57	9.31	9.60	9.81	10.64	10.71	11.18	10.75	10.42	9.47	—
25	9.50	9.64	9.30	9.63	9.90	10.14	10.86	10.96	11.29	10.84	10.61	9.85	—
26	9.86	9.50	9.15	8.85	8.61	8.99	9.42	9.79	10.24	10.40	10.04	9.60	—
27	10.04	9.78	9.26	9.45	9.47	9.92	10.36	10.66	10.89	10.76	10.29	9.87	—
28	10.73	10.46	10.20	10.01	10.15	10.39	10.91	11.27	11.40	11.34	10.80	10.06	—
29	10.05	10.04	9.91	9.99	10.11	10.31	10.89	11.30	11.48	11.25	10.59	9.99	—
30	10.43	10.34	10.18	9.99	9.95	10.53	11.10	11.66	11.71	11.53	11.23	10.45	—
31	11.41	11.14	10.84	10.91	11.00	11.12	11.44	11.91	12.43	12.15	11.57	11.02	—
Hourly Means.	9.77	9.44	9.16	9.10	9.26	9.57	10.07	10.43	10.61	10.38	9.88	9.22	—

AUGUST. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	6.92	6.45	6.07	6.21	6.32	6.72	6.98	7.51	8.10	8.25	8.44	8.18	7.76
2	6.73	6.17	5.77	5.73	5.83	6.18	6.61	7.46	7.72	7.89	7.98	7.83	7.29
3	6.53	5.91	5.84	5.97	6.22	6.57	7.32	7.61	8.03	8.12	7.99	8.01	7.17
4	6.16	5.62	5.35	5.31	5.62	6.13	7.15	7.51	8.12	8.20	8.05	7.74	7.12
5	7.25	6.33	5.45	5.20	5.17	5.63	6.00	6.69	7.27	7.57	7.80	7.83	7.09
6	7.21	6.87	6.46	6.47	6.62	7.07	7.57	8.03	8.62	9.10	9.00	8.88	7.82
7	8.97	8.12	7.55	7.72	8.14	8.56	9.06	9.57	9.95	10.11	10.13	10.14	9.03
8	8.48	7.82	7.28	7.19	7.78	8.52	8.83	9.63	10.50	10.74	10.78	10.61	9.31
9	8.41	7.76	7.10	6.92	7.35	7.75	8.49	9.28	9.87	10.21	10.30	10.14	9.21
10	7.62	7.02	6.69	6.67	7.71	8.64	9.10	9.84	10.23	10.39	10.55	10.25	9.15
11	8.17	7.50	7.15	7.15	7.64	8.32	9.49	10.34	10.57	11.01	11.35	11.23	9.26
12	9.80	9.21	8.71	8.57	8.77	9.33	10.42	11.13	11.49	11.78	11.93	11.70	10.65
13	9.67	8.98	8.31	8.26	8.25	8.53	9.00	9.57	9.97	10.21	10.55	10.68	10.12
14	8.62	8.12	7.57	7.48	7.67	7.93	8.67	9.32	9.72	10.05	10.34	10.08	9.41
15	8.92	8.53	7.99	7.97	8.53	8.85	9.78	10.49	10.84	11.00	11.06	10.78	9.60
16	9.07	8.88	8.28	8.23	8.67	9.12	9.65	10.37	11.03	11.55	11.48	11.42	10.03
17	10.47	9.81	9.30	9.05	9.38	9.89	10.65	11.13	11.59	11.95	12.04	12.15	11.19
18	10.01	9.28	8.94	9.16	9.45	9.57	9.97	10.43	11.02	11.30	11.38	11.13	10.92
19	9.01	8.29	8.25	8.21	8.47	9.03	9.78	10.48	10.92	11.13	11.51	11.19	10.23
20	8.95	8.21	7.66	7.82	8.22	8.63	9.24	9.67	10.24	10.39	10.64	10.13	9.79
21	8.15	7.61	7.26	7.31	7.32	7.59	8.33	8.95	9.31	9.76	9.59	9.34	9.05
22	7.66	6.98	6.72	6.62	6.96	7.67	8.65	9.36	9.55	9.94	10.09	9.89	8.69
23	7.93	7.52	7.16	7.21	7.42	8.08	8.55	9.51	10.09	10.29	10.58	10.55	9.08
24	8.47	7.66	7.20	7.14	7.49	8.08	8.92	9.73	10.05	10.11	10.29	9.94	9.43
25	9.41	9.09	8.58	8.47	8.53	9.12	9.61	9.89	10.43	10.40	10.70	10.16	9.87
26	8.97	8.41	8.09	8.21	8.47	8.83	9.32	9.84	10.34	10.63	10.65	10.59	9.45
27	9.22	8.50	7.97	7.61	7.77	7.96	8.78	9.71	10.28	10.83	10.99	10.85	9.63
28	9.66	9.28	8.75	8.30	8.33	8.40	8.79	9.30	9.60	10.28	10.22	10.14	9.95
29	9.36	9.14	8.39	8.16	8.32	8.43	9.31	9.89	10.59	10.89	10.93	10.70	10.00
30	9.84	9.27	9.11	9.06	9.27	9.75	10.48	10.99	11.42	11.85	11.79	11.79	10.57
31	10.12	9.75	9.24	8.89	9.02	9.35	9.68	10.28	10.75	11.33	11.52	11.23	10.75
Hourly Means.	8.57	8.00	7.55	7.49	7.76	8.20	8.84	9.47	9.94	10.23	10.34	10.17	9.31

STANDARD THERMOMETER.

AUGUST.

Mean Batavia Time:	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	75.5	75.2	74.6	74.0	73.8	73.3	73.6	75.3	79.3	82.4	85.2	86.6	—
2	76.6	76.4	75.6	75.0	74.9	74.6	75.1	77.2	80.2	82.6	84.9	85.0	—
3	76.4	76.0	75.5	75.0	74.4	74.2	75.0	76.8	80.7	82.6	85.0	85.7	—
4	77.8	77.2	76.8	76.0	76.0	75.0	75.0	77.7	80.5	82.9	84.3	86.2	—
5	75.7	75.5	75.2	74.8	74.6	74.3	75.1	77.6	80.0	82.0	80.6	81.1	—
6	77.5	77.1	76.5	76.1	75.8	75.7	76.0	77.7	80.3	82.6	84.1	84.6	—
7	76.5	76.4	76.0	75.4	75.0	74.6	75.0	76.3	78.0	80.8	83.1	83.7	—
8	77.0	76.8	76.4	76.4	76.1	76.1	76.6	78.6	82.0	84.0	86.1	87.6	—
9	77.0	76.0	75.0	75.1	75.3	75.0	75.0	76.8	80.4	83.9	85.5	86.2	—
10	76.0	75.4	75.1	75.1	74.9	74.3	75.0	77.2	79.2	81.0	84.5	86.0	—
11	75.5	75.8	75.8	75.6	75.8	75.6	76.1	79.0	81.7	84.1	86.0	88.0	—
12	76.0	76.0	76.0	75.7	75.5	75.3	75.4	76.8	79.3	82.2	84.4	85.4	—
13	75.0	74.4	74.3	74.1	73.9	73.5	73.9	77.3	80.3	82.5	84.0	86.0	—
14	76.2	76.0	75.2	74.6	74.0	73.6	74.0	76.0	78.9	81.1	84.3	86.3	—
15	76.5	76.0	75.2	74.7	74.2	73.7	74.5	77.0	80.0	83.0	85.0	86.1	—
16	74.6	74.0	73.7	73.2	72.7	72.3	72.7	75.4	79.1	82.8	85.3	87.0	—
17	75.3	74.7	74.2	73.6	73.2	73.2	73.5	76.0	79.8	82.8	84.3	85.8	—
18	75.5	75.0	74.4	74.0	73.8	73.2	73.6	75.2	79.2	82.5	84.7	87.2	—
19	74.2	73.8	72.5	71.1	70.0	68.3	68.1	71.8	77.7	82.4	84.8	87.1	—
20	73.1	72.8	72.4	72.0	71.6	71.2	72.1	75.0	79.0	82.0	84.5	86.6	—
21	74.3	73.6	73.0	72.5	72.5	72.1	73.1	75.7	79.5	82.4	84.6	85.6	—
22	75.6	75.5	75.1	74.9	73.6	73.4	74.3	77.4	80.6	83.2	84.8	85.8	—
23	74.9	74.5	74.3	74.3	74.0	73.9	74.3	76.7	79.6	82.9	85.4	86.8	—
24	77.2	77.0	76.4	75.8	75.0	74.2	74.9	78.0	82.0	83.6	85.3	86.8	—
25	77.0	76.0	75.6	75.2	74.2	73.6	74.0	74.4	77.6	81.3	84.0	84.3	—
26	75.4	75.6	75.0	75.1	74.8	74.3	75.1	78.7	82.0	83.8	86.2	87.5	—
27	75.7	74.7	74.5	73.9	72.5	71.7	73.0	78.0	81.9	84.0	86.2	87.8	—
28	75.9	75.1	74.5	74.1	73.7	73.1	74.0	76.6	79.6	81.2	83.1	84.9	—
29	76.0	75.2	75.0	74.5	74.2	74.0	74.5	77.6	80.6	83.8	86.2	88.1	—
30	76.0	76.3	75.3	74.7	74.3	73.6	74.3	77.0	80.8	84.0	86.0	87.0	—
31	74.4	74.0	73.1	72.7	72.0	71.9	72.8	75.7	79.0	82.4	85.6	87.0	—
Hourly Means.	75.82	75.42	74.91	74.49	74.07	73.64	74.18	76.66	79.96	82.67	84.77	86.12	—

AUGUST.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	87.3	87.5	87.1	86.1	84.4	83.0	81.4	80.4	78.7	77.9	77.1	76.7	79.85
2	86.7	86.0	85.8	84.0	83.7	82.3	81.1	80.0	79.0	78.4	77.7	77.1	80.00
3	86.3	88.0	86.3	85.0	83.6	82.2	81.3	80.7	80.1	79.5	79.1	78.0	80.31
4	87.0	86.4	86.0	85.0	83.9	82.9	81.6	79.1	77.9	76.8	76.6	76.0	80.19
5	83.1	85.7	86.1	86.5	85.6	83.1	81.9	80.7	80.1	79.3	78.5	77.9	79.79
6	85.1	85.7	86.1	85.0	84.0	82.6	81.2	80.4	79.1	78.8	78.0	77.1	80.30
7	84.6	85.4	84.9	83.2	82.3	81.1	80.0	79.0	78.1	77.5	77.5	77.5	79.25
8	87.8	89.0	87.8	85.6	84.2	82.7	81.5	80.3	79.0	78.1	78.1	77.3	81.05
9	86.7	86.0	84.7	83.7	83.0	82.1	80.8	80.0	78.9	78.1	77.5	76.7	79.98
10	87.1	87.5	86.5	85.0	82.1	77.5	76.9	76.1	76.2	75.8	76.2	75.9	79.02
11	87.8	88.4	87.5	86.2	85.0	83.8	81.5	77.6	77.2	77.3	77.0	76.6	80.62
12	86.1	85.5	85.2	84.8	84.3	82.6	82.1	79.0	77.5	76.5	76.0	75.6	79.72
13	86.2	86.8	86.8	85.9	84.5	82.5	81.2	80.0	79.0	78.2	78.0	77.0	79.80
14	86.1	86.5	86.1	84.9	83.9	83.0	81.6	80.0	79.8	78.8	78.2	77.2	79.85
15	86.0	86.2	86.4	85.7	84.6	83.0	82.0	80.3	79.1	76.9	75.8	75.0	79.87
16	88.0	86.2	86.0	85.0	84.6	83.0	81.5	79.9	78.6	77.5	76.8	75.9	79.41
17	85.7	86.3	85.2	85.2	84.7	83.2	80.0	78.0	77.2	77.0	76.5	76.1	79.23
18	88.0	89.5	86.7	84.9	83.8	82.5	81.0	80.1	79.2	77.7	76.6	75.1	79.73
19	88.7	90.0	86.0	85.1	84.0	81.6	79.9	77.3	76.0	75.2	74.3	74.0	78.08
20	87.4	86.9	86.1	84.7	83.7	82.1	80.5	78.5	77.3	76.5	75.6	75.0	78.61
21	87.2	86.6	85.4	84.1	84.0	82.4	80.9	79.0	78.6	77.6	76.8	76.1	79.07
22	87.1	85.6	86.0	84.8	83.6	82.6	81.0	79.5	78.7	77.8	76.9	75.9	79.74
23	86.0	87.0	86.1	85.9	84.4	82.8	81.4	80.4	79.8	78.6	78.0	78.0	80.00
24	87.8	88.3	88.3	87.1	86.0	83.7	81.8	80.4	79.5	78.7	77.7	77.2	80.95
25	85.0	83.2	81.3	80.0	80.4	79.8	78.5	77.6	76.5	76.0	75.5	75.0	78.17
26	88.0	88.0	87.5	86.0	84.3	82.2	80.3	79.3	78.3	77.8	77.1	76.7	80.38
27	88.2	88.8	87.8	86.1	85.1	83.0	81.0	79.5	78.2	77.2	77.0	76.5	80.40
28	85.2	85.4	85.0	84.0	83.3	82.0	81.0	79.4	78.1	78.2	77.5	77.3	79.26
29	88.5	86.3	86.5	85.4	84.1	82.5	81.0	79.5	78.3	77.9	77.1	76.4	80.13
30	86.9	86.7	86.4	85.8	85.0	83.5	81.5	80.0	78.5	77.7	76.5	75.4	80.13
31	87.5	86.5	86.0	86.0	86.0	83.6	81.5	79.1	77.7	76.8	75.7	75.1	79.25
Hourly Means.	86.75	86.84	86.12	85.05	84.07	82.42	80.93	79.39	78.39	77.62	77.00	76.36	79.74

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

AUGUST.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	922	922	930	930	929	937	938	880	795	655	626	608	—
2	915	906	914	922	922	913	880	859	811	731	658	639	—
3	882	889	898	904	904	904	871	818	710	683	620	629	—
4	884	900	907	906	915	922	913	852	768	663	656	613	—
5	898	905	914	913	904	913	905	844	818	778	760	762	—
6	916	916	932	923	923	914	898	860	804	716	661	657	—
7	882	890	889	889	897	904	888	874	814	754	672	673	—
8	916	916	932	932	940	940	924	838	772	722	663	625	—
9	907	915	930	939	922	930	930	899	788	680	634	630	—
10	906	914	930	930	939	939	939	883	840	783	689	637	—
11	931	931	940	948	931	931	899	823	757	694	636	588	—
12	915	906	906	914	922	939	957	916	848	745	689	681	—
13	897	930	938	938	938	938	929	875	797	731	681	619	—
14	923	923	939	939	938	947	947	923	831	741	636	607	—
15	924	923	922	922	930	929	913	883	811	724	651	655	—
16	888	921	920	937	937	946	929	864	794	671	596	544	—
17	897	922	921	920	929	937	911	865	773	663	663	648	—
18	898	897	904	887	887	903	877	832	742	641	532	475	—
19	904	895	910	935	906	880	870	690	524	389	394	352	—
20	860	867	875	866	866	865	832	774	683	638	554	494	—
21	878	886	894	893	893	901	868	793	685	608	544	659	—
22	848	855	863	863	877	860	845	774	710	645	587	568	—
23	930	947	956	938	956	956	956	851	773	663	609	584	—
24	883	866	890	905	922	921	922	821	715	665	614	577	—
25	900	931	948	947	947	956	938	939	907	783	686	680	—
26	864	864	880	863	871	896	855	770	714	614	582	523	—
27	840	863	862	878	885	883	843	730	693	611	552	495	—
28	905	922	930	930	929	937	912	795	758	706	677	614	—
29	915	930	922	930	930	930	904	828	732	601	540	497	—
30	898	881	914	930	921	938	904	774	703	602	556	560	—
31	896	903	911	910	919	918	919	864	779	682	561	519	
Hourly Means.	897	904	914	916	917	920	904	838	763	677	619	594	—

AUGUST.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	604	630	646	675	709	738	783	811	869	884	899	899	801
2	670	681	687	706	726	744	797	840	854	837	828	851	804
3	600	549	638	651	691	721	755	781	802	832	847	892	770
4	603	613	612	652	713	745	776	815	844	874	882	905	789
5	691	667	636	619	634	718	777	819	810	832	869	900	804
6	659	647	617	645	673	723	769	796	838	853	867	899	796
7	664	647	697	712	779	820	855	869	901	900	900	907	820
8	606	552	630	667	694	779	791	841	885	901	908	916	804
9	632	630	696	713	752	771	826	848	885	892	900	915	815
10	622	636	696	710	672	883	874	898	890	898	890	872	828
11	654	645	605	643	683	727	762	891	907	900	906	915	802
12	694	699	704	690	694	751	792	784	835	856	848	863	815
13	656	632	602	648	675	737	798	833	869	884	884	916	806
14	624	613	649	665	700	718	770	840	840	877	893	907	808
15	649	649	625	667	650	724	742	811	808	826	864	879	795
16	571	631	599	664	695	739	762	795	846	867	882	898	787
17	654	638	671	659	650	657	765	813	811	834	857	873	789
18	502	434	583	600	639	688	716	758	793	835	857	888	740
19	331	307	532	503	582	630	698	772	792	805	820	836	677
20	534	547	562	549	574	658	730	798	804	809	848	863	727
21	562	559	584	628	596	655	753	792	814	835	842	864	749
22	543	615	617	651	685	716	761	794	814	835	826	848	750
23	674	627	681	700	701	752	806	811	840	885	908	884	808
24	571	555	585	628	568	672	749	811	839	877	892	900	765
25	670	724	733	751	723	758	822	852	874	890	898	897	840
26	536	518	527	586	603	694	759	779	791	789	811	802	729
27	426	382	564	617	625	670	732	779	821	874	882	906	726
28	614	609	651	680	691	750	783	847	884	861	867	867	797
29	550	643	582	603	661	709	775	816	853	860	883	890	770
30	602	619	606	628	676	725	756	795	837	852	874	889	768
31	574	594	617	617	550	637	663	777	774	794	832	863	753
Hourly Means.	598	597	627	649	667	723	771	815	839	856	870	884	782

DIRECTION OF THE WIND.

AUGUST.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	C	C	C	C	C	ENE	SE	SSW	ESE	E	ENE
2	C	C	C	C	NE	NE	ESE	SSW	SSW	SSW	SSW	SW
3	NE	NE	NE	NE	NE	NE	NE	S	S	S	SE	E
4	C	C	NE	NE	C	C	C	NE	NE	N	WSW	NNE
5	C	C	C	SSW	SSW	SSW	SSW	SSW	WSW	W	NW	NW
6	N	C	C	C	C	N	N	NE	ENE	ENE	E	E
7	E	E	E	E	E	E	E	E	NW	NW	NW	N
8	C	ENE	ENE	C	C	ENE	ENE	SE	E	E	SE	E
9	NE	NE	NE	NE	NE	C	C	NE	SE	ENE	ENE	N
10	C	NE	NE	NE	C	NE	NE	NNW	NW	NW	SSW	S
11	C	C	C	C	S	C	S	SE	E	E	E	ENE
12	SSW	SSW	SSW	SSW	NW	NW	C	WNW	W	E	NE	ENE
13	SSW	SSW	SSW	SSW	SSW	C	SSW	SSE	E	E	E	ENE
14	C	C	C	C	C	ENE	ENE	ENE	ENE	E	ENE	E
15	C	C	C	C	C	C	NNE	NNE	SW	SW	SSW	NE
16	S	S	S	C	C	C	S	S	S	E	E	ENE
17	C	C	NE	NE	NE	NE	NE	ENE	S	E	NE	NE
18	C	SW	SW	SW	SW	SW	SW	SW	SW	S	E	E
19	NE	NE	NE	NE	NE	NE	NE	S	S	SSE	E	ESE
20	NNE	NNE	NNE	NNE	NNE	NNE	NNE	S	SSW	SW	NW	WSW
21	C	N	N	N	N	N	NNE	NNE	S	S	WSW	WNW
22	NNE	NNE	C	NNE	NNE	NNE	WNW	WSW	SW	ESE	SE	ESE
23	E	E	SSE	C	SSE	SSE	SSE	SSE	S	ESE	ESE	ENE
24	E	E	C	C	C	E	E	E	ESE	ESE	ESE	ESE
25	E	NE	NE	SSE	S	SSW	S	S	SE	E	ESE	ESE
26	ESE	SE	SE	SE	ESE	ESE	ESE	ESE	E	ESE	E	E
27	ESE	ESE	ESE	C	ESE	ESE	ESE	SE	SE	SE	E	E
28	C	C	C	C	C	ENE	ENE	ENE	NE	NE	N	NNE
29	C	C	C	ENE	ENE	ENE	ENE	S	S	SSW	SE	E
30	NE	NE	C	NE	NE	C	NE	SE	SSW	E	E	E
31	C	C	C	C	C	C	ENE	SSE	SSW	SW	SE	ESE

AUGUST.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	E	NE	ENE	NE	NE	NE	NE	NE	C	C	C	C
2	N	NNE	NNE	NNE	N	NE	NE	NE	NE	NE	NE	NE
3	E	ENE	NNE	NNE	NE	NE	NE	NE	C	C	C	C
4	NNE	N	N	N	N	N	WSW	SSW	SSW	SSW	SSW	SSW
5	NW	W	WSW	NW	NW	N	C	C	C	C	C	N
6	E	ENE	ENE	E	E	E	E	C	C	E	E	E
7	NNE	ENE	NE	E	E	ENE	ENE	C	C	ENE	ENE	C
8	E	ENE	NE	NE	NE	NE	NE	NE	NE	NE	C	NE
9	NE	NE	NNE	NE	NE	NE	C	NE	NE	NE	C	NE
10	NE	NE	NE	NE	SSW	SSW	SSW	SSW	SSW	SSW	S	S
11	NNE	NE	NE	ENE	NE	ENE	SW	SSW	SSW	C	SSW	SSW
12	N	NE	NNE	NE	NE	NE	NE	SW	SSW	SSW	SSW	SSW
13	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	C	C
14	ENE	NNE	N	NNE	NE	NNE	NNE	C	C	NNE	NNE	C
15	N	NE	NE	NE	NE	NE	NE	NE	NE	S	S	S
16	E	NNE	NNE	NE	NE	NE	NE	C	C	C	C	NE
17	NNE	NE	N	NNE	E	E	SE	S	SW	SW	SW	SW
18	NE	E	NNE	NE	NE	NE	NE	NE	C	C	C	NE
19	E	ESE	N	NNE	N	NE	NE	NE	NE	NE	NE	NE
20	NW	N	N	N	N	N	C	N	N	N	N	N
21	NNE	N	N	NNE	N	NNE	C	C	C	NNE	NNE	NNE
22	E	NNE	NNE	NNE	NE	NE	NNW	NNW	W	SW	SW	SW
23	NNE	N	NNE	NE	ENE	ENE	ENE	E	C	C	C	E
24	E	E	E	E	E	E	E	C	E	C	C	E
25	E	E	ESE	E	E	E	E	E	E	C	C	ESE
26	ENE	E	E	E	ENE	E	E	E	E	ESE	ESE	ESE
27	E	ENE	NE	ENE	NE	ENE	ENE	C	C	C	C	C
28	N	N	NE	NE	NE	NE	NE	NE	C	C	NE	ENE
29	E	NE	NNE	NNE	NE	NE	NE	C	C	C	C	C
30	NNE	NE	NNE	NE	ENE	ENE	ENE	ENE	C	C	C	ENE
31	NE	NNE	NNE	N	E	E	E	C	E	C	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.8	4.8	12.9	12.9	—
	2	0.0	0.0	0.0	0.0	1.6	2.4	5.6	4.0	3.2	2.4	3.2	4.0	—
	3	0.8	0.8	0.8	1.6	3.2	3.2	3.2	6.4	7.2	6.4	4.8	9.7	—
	4	0.0	0.0	0.8	0.8	0.0	0.0	0.0	1.6	2.4	4.0	4.8	10.5	—
	5	0.0	0.0	0.0	1.6	0.8	1.6	4.0	3.2	4.0	4.0	12.9	12.1	—
	6	0.8	0.0	0.0	0.0	0.0	1.6	3.2	1.6	4.8	9.7	13.7	11.3	—
	7	1.6	1.6	3.2	0.8	2.4	0.8	1.6	0.8	4.8	6.4	4.0	7.2	—
	8	0.0	1.6	0.8	0.0	0.0	0.8	2.4	6.4	12.1	14.5	12.9	13.7	—
	9	0.8	0.8	1.6	0.8	0.8	0.0	0.0	0.8	3.2	5.6	8.9	11.3	—
	10	0.0	0.8	0.8	0.8	0.0	0.8	1.6	2.4	3.2	4.8	7.2	4.8	—
	11	0.0	0.0	0.0	0.0	0.8	0.0	3.2	6.4	8.9	11.3	12.9	9.7	—
	12	0.8	1.6	1.6	1.6	3.2	1.6	0.0	0.8	2.4	4.0	7.2	9.7	—
	13	0.8	0.8	0.8	0.8	1.6	0.0	1.6	4.0	10.5	10.5	10.5	11.3	—
	14	0.0	0.0	0.0	0.0	0.0	1.6	0.8	1.6	2.4	2.4	8.0	8.0	—
	15	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8	4.0	4.8	8.0	—
	16	0.8	0.8	0.8	0.0	0.0	0.0	3.2	1.6	3.2	6.4	7.2	8.9	—
	17	0.0	0.0	1.6	2.4	1.6	1.6	3.2	3.2	4.8	4.8	8.0	9.7	—
	18	0.0	2.4	4.8	1.6	0.8	1.6	3.2	3.2	7.2	6.4	6.4	8.9	—
	19	1.6	0.8	0.8	0.8	1.6	0.8	4.0	5.6	6.4	8.9	12.1	13.7	—
	20	3.2	4.0	3.2	3.2	3.2	4.0	3.2	5.6	8.0	4.8	4.8	5.6	—
	21	0.0	0.8	1.6	1.6	3.2	2.4	1.6	1.6	4.8	4.0	4.0	4.8	—
	22	1.6	1.6	0.0	1.6	1.6	3.2	4.8	3.2	3.2	6.4	6.4	8.0	—
	23	1.6	1.6	1.6	0.0	2.4	2.4	1.6	4.0	2.4	8.9	11.3	10.5	—
	24	1.6	1.6	0.0	0.0	0.0	0.8	0.8	5.6	12.9	16.1	15.3	16.9	—
	25	3.2	0.8	1.6	4.8	4.0	4.8	3.2	3.2	8.0	14.5	16.9	20.1	—
	26	4.8	6.4	3.2	4.8	2.4	0.8	5.6	12.9	18.5	21.7	20.1	24.1	—
	27	1.6	0.8	1.6	0.0	1.6	1.6	1.6	6.4	15.3	14.5	18.5	19.3	—
	28	0.0	0.0	0.0	0.0	0.0	0.8	0.8	2.4	1.6	2.4	8.0	9.7	—
	29	0.0	0.0	0.0	0.8	0.8	0.8	3.2	6.4	3.2	4.8	8.0	8.9	—
	30	0.8	0.8	0.0	0.8	0.8	0.0	3.2	4.8	6.4	8.9	12.9	10.5	—
	31	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	4.0	8.0	8.9	—
Hourly Means.		0.85	0.98	1.01	1.01	1.24	1.29	2.40	3.75	6.01	7.49	9.57	10.73	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	11.3	9.7	14.5	17.7	12.9	8.0	3.2	1.6	0.0	0.0	0.0	0.0	4.86
	2	4.8	8.0	11.3	7.2	9.7	6.4	0.8	0.8	1.6	0.8	1.6	1.6	3.38
	3	9.7	10.5	16.1	14.5	9.7	3.2	0.8	1.6	0.0	0.0	0.0	0.0	4.76
	4	10.5	11.3	10.5	9.7	9.7	2.4	6.4	1.6	2.4	1.6	1.6	0.8	3.89
	5	14.5	9.7	6.4	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0	1.6	3.52
	6	12.9	14.5	10.5	9.7	4.8	3.2	2.4	2.4	0.0	0.8	1.6	0.8	4.60
	7	8.0	8.9	14.5	10.5	8.0	4.0	0.8	0.0	0.0	1.6	0.8	0.0	3.85
	8	14.5	16.1	17.7	16.1	13.7	9.7	4.8	0.8	0.8	0.8	0.0	0.8	6.71
	9	13.7	15.3	12.1	10.5	9.7	1.6	0.0	0.8	0.8	0.8	0.0	0.8	4.20
	10	5.6	13.7	16.1	15.3	9.7	6.4	1.6	1.6	1.6	1.6	1.6	0.8	4.28
	11	12.1	14.5	18.5	16.9	12.1	4.8	9.7	5.6	2.4	0.0	0.8	0.8	6.31
	12	10.5	11.3	11.3	11.3	11.3	4.8	3.2	6.4	4.8	1.6	1.6	1.6	4.76
	13	12.1	16.1	15.3	14.5	12.9	7.2	3.2	0.8	0.8	0.8	0.0	0.0	5.70
	14	7.2	10.5	10.5	12.9	8.9	12.9	2.4	0.0	0.0	0.8	0.8	0.0	3.82
	15	10.5	11.3	13.7	15.3	13.7	7.2	3.2	1.6	4.8	3.2	1.6	0.8	4.72
	16	12.1	14.5	14.5	12.9	11.3	4.8	1.6	0.0	0.0	0.0	0.0	0.8	4.39
	17	11.3	12.1	15.3	11.3	6.4	1.6	4.0	2.4	0.8	0.8	0.8	0.8	4.52
	18	8.9	10.5	13.7	14.5	9.7	5.6	0.8	0.8	0.0	0.0	0.0	1.6	4.69
	19	12.9	13.7	13.7	10.5	8.0	2.4	0.8	2.4	1.6	1.6	4.8	4.8	5.60
	20	10.5	10.5	12.1	13.7	6.4	3.2	0.0	0.8	0.8	1.6	1.6	1.6	4.82
	21	10.5	12.1	11.3	9.7	4.0	2.4	0.0	0.0	0.0	1.6	0.8	0.8	3.48
	22	9.7	12.9	10.5	11.3	8.0	3.2	1.6	2.4	6.4	6.4	7.2	4.8	5.25
	23	10.5	15.3	11.3	10.5	10.5	5.6	3.2	1.6	0.0	0.0	0.0	0.8	4.90
	24	17.7	16.1	12.1	16.1	15.3	8.9	4.8	0.0	0.8	0.0	0.0	0.8	6.84
	25	19.3	20.9	16.9	14.5	9.7	4.0	0.8	0.8	0.8	0.0	0.0	3.2	7.33
	26	24.1	26.6	22.5	21.7	16.9	10.5	6.4	5.6	4.8	4.0	3.2	1.6	11.38
	27	18.5	17.7	14.5	13.7	9.7	4.8	1.6	0.0	0.0	0.0	0.0	0.0	6.80
	28	10.5	11.3	11.3	9.7	9.7	4.8	3.2	0.8	0.0	0.0	1.6	0.8	3.73
	29	11.3	14.5	14.5	15.3	11.3	4.0	0.8	0.0	0.0	0.0	0.0	0.0	4.53
	30	14.5	15.3	11.3	15.3	11.3	4.0	1.6	0.8	0.0	0.0	0.0	0.8	5.20
	31	13.7	13.7	13.7	11.3	9.7	1.6	0.8	0.0	1.6	0.0	0.0	0.0	3.83
Hourly Means.		12.06	13.52	13.49	12.87	9.88	4.99	2.40	1.42	1.21	0.98	1.03	1.08	5.05

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	1	1	0	0	1	2	8	6	1	1	4	6	—
	2	2	2	2	3	2	1	2	0	0	2	4	7	—
	3	1	1	0	0	1	3	1	0	1	0	0	5	—
	4	9	5	8	6	4	3	2	1	1	1	2	3	—
	5	3	3	4	5	4	4	10	7	8	10	9	7	—
	6	3	8	6	7	3	10	8	9	7	9	9	9	—
	7	8	6	6	6	7	7	8	7	9	3	5	8	—
	8	10	10	10	10	10	10	9	4	6	4	5	6	—
	9	2	3	9	10	9	4	5	4	3	4	4	5	—
	10	2	4	6	7	3	3	4	4	7	5	5	8	—
	11	8	10	10	9	10	9	1	0	0	2	3	8	—
	12	10	10	10	10	10	10	5	1	1	3	3	7	—
	13	2	0	0	1	1	2	1	0	0	1	9	1	—
	14	2	1	1	1	2	3	6	6	7	7	3	4	—
	15	1	1	1	0	2	3	3	0	0	2	5	4	—
	16	1	0	0	0	1	1	1	1	0	1	1	2	—
	17	3	2	4	2	2	6	3	2	1	3	7	6	—
	18	6	9	4	6	7	6	1	0	0	0	6	2	—
	19	0	1	1	1	0	2	2	2	2	2	2	3	—
	20	2	2	3	2	2	3	2	3	3	4	2	2	—
	21	2	1	1	7	9	9	4	1	0	0	1	8	—
	22	9	5	4	4	6	5	6	4	6	7	6	7	—
	23	10	10	10	10	10	10	2	0	0	0	6	9	—
	24	1	1	0	0	1	2	2	1	3	5	9	4	—
	25	10	10	10	9	10	9	10	9	7	7	7	9	—
	26	8	4	2	6	4	8	4	3	3	5	2	1	—
	27	1	1	0	2	3	5	3	1	1	2	2	1	—
	28	1	1	0	0	1	2	1	0	0	7	9	5	—
	29	2	1	1	0	1	2	2	0	0	1	3	3	—
	30	7	4	4	2	3	3	4	3	2	3	5	6	—
	31	2	1	1	1	2	2	2	1	1	2	1	7	—
Hourly Means.		4.2	3.8	3.8	4.1	4.2	4.8	3.9	2.6	2.6	3.3	4.5	5.3	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	4	4	3	2	1	1	1	0	1	0	0	1	2.0
	2	8	8	7	5	3	4	2	4	8	8	3	3	3.8
	3	4	4	2	2	5	6	8	9	9	8	2	7	3.3
	4	1	0	0	1	1	6	10	3	1	1	2	2	3.0
	5	7	6	5	5	4	5	4	7	5	5	6	7	5.8
	6	8	10	10	10	10	9	10	4	9	10	3	5	7.8
	7	9	8	8	8	6	5	4	5	6	3	10	10	6.8
	8	7	2	2	2	4	3	2	1	1	8	3	2	5.5
	9	3	1	2	0	1	1	1	2	3	4	1	1	3.4
	10	6	4	3	3	10	10	10	10	10	10	10	10	6.4
	11	6	5	4	2	3	6	10	9	9	10	4	4	5.9
	12	6	2	2	3	3	10	9	10	10	9	10	9	6.8
	13	6	2	2	2	2	7	3	4	8	5	4	3	2.8
	14	10	0	0	0	1	2	2	3	3	1	1	1	2.8
	15	4	3	3	2	2	3	6	3	2	4	2	2	2.4
	16	7	2	2	1	2	2	2	1	0	0	0	1	1.2
	17	4	3	2	7	9	10	10	7	10	10	9	8	5.4
	18	3	3	2	3	4	3	4	5	3	3	4	1	3.5
	19	0	2	1	0	6	5	2	1	1	2	1	2	1.7
	20	3	1	1	1	2	2	0	0	0	2	1	3	1.9
	21	4	4	6	7	6	5	2	1	2	1	1	4	3.6
	22	9	9	8	7	7	10	10	10	10	10	10	10	7.5
	23	6	3	4	6	4	5	5	10	4	4	9	4	5.9
	24	6	6	10	5	4	4	2	3	1	1	3	2	3.2
	25	10	10	10	8	8	8	3	3	8	3	3	6	7.8
	26	3	2	1	2	2	2	2	1	1	1	0	1	2.8
	27	1	0	0	0	0	2	2	2	2	1	5	2	1.6
	28	1	1	0	1	1	2	3	2	2	3	4	3	2.1
	29	6	2	1	1	0	2	1	1	2	2	3	2	1.6
	30	4	3	4	2	1	1	3	4	5	2	2	2	3.3
	31	6	3	1	2	2	2	1	1	1	0	1	0	1.8
Hourly Means.		5.2	3.6	3.4	3.2	3.7	4.6	4.3	4.1	4.4	4.2	3.8	3.8	3.98

AUGUST.

Mean Batavia Time.	8—8½ A. M.	8½—9	9—9½	9½—10	10—10½	10½—11	11—11½	11½—12	12—12½	12½—1 P. M.	1—1½	1½—2	2—2½	2½—3	3—3½	3½—4	Daily and Monthly Means.
1	8	8	8	8	8	8	6	6	8	8	8	8	8	4	7	10	7.6
2	10	10	10	10	7	7	8	3	6	7	3	6	0	5	6	0	6.1
3	10	10	10	10	10	8	7	6	7	7	10	10	9	10	10	9	8.9
4	7	10	10	10	10	4	8	7	10	10	10	10	10	10	10	10	9.1
5	6	2	2	1	0	0	4	4	7	7	9	9	8	8	9	9	5.3
6	2	4	7	8	3	6	5	1	5	1	4	1	1	4	3	0	3.4
7	1	1	2	9	7	9	9	1	0	5	5	6	7	7	6	0	4.7
8	7	9	8	8	9	8	6	6	8	7	6	10	10	10	10	9	8.2
9	8	10	8	10	8	10	7	7	9	9	9	8	8	8	8	8	8.4
10	3	4	2	2	7	8	6	8	6	7	2	7	10	10	10	10	6.4
11	10	10	10	9	9	9	8	7	7	6	8	7	8	10	10	10	8.6
12	10	10	10	10	10	10	9	9	7	10	9	9	10	10	10	10	9.6
13	10	10	9	8	8	7	7	7	8	9	7	9	10	10	10	10	8.7
14	6	8	8	8	6	8	10	9	6	5	6	8	10	10	10	10	8.0
15	10	10	10	9	8	7	7	6	7	9	10	10	10	10	10	8	8.8
16	10	10	10	10	10	10	10	9	8	8	6	10	10	10	10	10	9.4
17	9	10	10	10	10	8	7	7	8	8	9	9	10	10	10	8	8.9
18	6	7	9	9	8	10	7	10	8	9	8	8	8	8	9	6	8.1
19	10	10	10	10	9	7	10	10	10	10	10	9	8	7	8	3	8.8
20	9	10	10	10	10	10	10	10	8	9	10	10	10	10	9	10	9.7
21	10	10	10	10	10	10	10	6	3	8	6	6	10	7	1	1	7.4
22	9	8	4	6	7	4	6	4	7	4	2	0	2	2	1	1	4.2
23	10	10	10	8	10	8	7	8	7	4	3	9	9	9	7	7	7.9
24	10	10	8	8	4	4	1	3	10	7	7	7	8	9	1	2	6.2
25	3	2	2	6	7	7	3	4	1	7	8	4	0	1	3	1	3.7
26	9	9	8	8	8	8	9	10	10	10	10	10	10	10	10	10	9.3
27	10	10	10	9	10	9	8	8	9	10	10	10	10	10	10	10	9.6
28	10	10	8	7	2	7	4	7	10	10	10	10	10	10	10	10	8.4
29	10	10	10	10	10	8	9	9	10	7	9	10	10	10	10	10	9.5
30	9	10	10	10	9	6	8	6	6	5	7	7	10	9	7	7	7.9
31	10	10	10	10	9	9	8	6	4	4	8	10	10	10	10	10	8.6
Means.	8.1	8.5	8.2	8.4	7.8	7.5	7.2	6.6	7.1	7.3	7.4	8.0	8.2	8.3	7.9	7.1	7.73

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

AUGUST.

Mean Batavia Time.	7h30 A M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	25.0	40.5	43.8	46.8	47.0	50.7	50.3	52.6	52.6	53.5	51.1	45.0	50.7	51.6	42.6	45.3	47.9	45.6	38.4
2	32.8	41.9	44.6	47.9	50.1	41.6	53.3	54.5	43.3	39.3	52.9	47.9	47.4	39.0	36.0	49.6	38.4	32.6	35.4
3	26.7	39.9	43.3	47.4	48.9	49.4	50.9	53.9	48.9	46.4	49.0	52.4	52.5	52.5	51.5	49.4	46.9	44.4	38.0
4	31.4	42.4	44.4	48.5	50.2	51.4	50.8	45.8	49.9	53.4	52.9	51.9	51.9	52.4	52.1	51.4	40.4	40.4	38.4
5	27.0	35.4	44.2	36.0	44.3	38.9	37.4	34.1	46.1	46.0	47.2	51.3	55.5	53.3	52.3	49.5	51.5	49.0	38.6
6	28.3	34.4	35.5	46.8	44.7	41.4	44.3	45.3	44.6	47.5	44.1	42.0	44.6	40.9	38.0	43.0	37.4	33.0	31.9
7	27.3	30.8	35.0	31.4	38.1	50.9	49.7	55.6	46.6	43.8	43.6	51.3	48.9	46.8	48.7	47.4	40.7	32.3	31.5
8	27.3	40.4	42.6	45.4	43.7	49.4	51.1	48.4	44.1	54.4	52.9	43.8	51.2	52.0	51.4	49.5	49.1	44.8	35.8
9	30.3	37.4	43.9	49.9	51.4	54.4	47.9	48.2	52.3	51.9	54.7	54.0	50.6	54.4	47.4	46.4	47.0	38.5	34.4
10	33.7	40.4	35.5	43.6	43.8	47.7	51.2	44.4	45.3	41.6	55.1	39.8	40.8	51.6	51.9	49.8	48.8	46.9	37.7
11	34.7	43.1	45.4	48.4	49.4	49.9	52.0	47.1	54.6	57.2	56.1	53.4	52.9	50.0	52.0	49.4	47.4	44.3	36.4
12	31.9	41.9	44.3	47.4	48.7	50.6	53.4	53.9	54.3	45.9	54.3	54.8	53.7	51.4	50.4	48.6	47.5	45.1	37.1
13	32.2	41.9	44.3	47.9	47.1	51.5	50.5	44.9	51.7	54.4	50.5	44.2	52.0	52.3	50.7	50.0	47.9	45.1	36.8
14	28.2	34.0	40.7	41.7	44.5	45.4	49.1	52.1	52.3	53.8	41.8	43.9	48.5	50.0	49.5	49.4	48.9	46.4	36.4
15	33.4	42.1	44.0	47.4	48.8	50.6	46.5	54.1	55.8	49.4	53.0	54.0	52.8	51.3	51.1	50.4	49.8	43.6	36.7
16	32.2	41.9	44.8	47.7	49.7	51.6	51.8	52.4	52.7	53.8	53.5	47.9	50.4	50.6	50.3	48.7	47.0	44.5	33.9
17	31.6	39.4	42.8	47.9	48.8	51.9	51.8	51.4	47.7	50.4	53.5	50.8	52.6	51.6	50.2	49.0	48.6	47.5	35.3
18	26.9	35.9	34.9	47.4	44.9	43.9	51.4	48.1	53.4	54.0	53.4	52.3	50.9	54.6	43.9	48.3	48.0	39.4	33.9
19	33.5	41.0	44.7	48.5	49.7	50.5	46.3	51.9	52.0	52.6	53.6	55.4	55.7	52.0	52.0	48.9	41.9	42.3	33.9
20	33.9	38.6	41.1	46.9	48.5	48.9	52.3	51.9	52.6	50.6	52.4	53.7	53.0	51.4	51.2	48.1	47.4	45.4	37.2
21	33.7	38.7	42.5	46.4	48.6	50.9	51.6	53.8	55.2	41.9	50.7	53.4	53.6	52.2	49.6	43.6	39.2	38.4	38.8
22	35.7	42.5	44.3	48.4	44.2	50.9	53.2	49.4	48.7	51.6	52.6	48.8	45.4	42.1	46.2	39.4	40.3	37.0	40.6
23	38.2	42.8	44.7	48.0	49.8	50.4	51.8	48.9	53.4	49.8	53.1	42.3	46.6	53.9	51.8	46.4	48.3	46.2	36.9
24	34.6	43.6	45.4	47.9	46.3	40.4	44.1	43.2	43.7	51.4	53.7	47.3	47.9	47.6	48.4	45.6	40.9	41.0	44.9
25	—	30.8	34.4	41.0	40.4	47.7	47.7	48.9	46.9	43.9	43.4	51.0	50.9	40.3	38.9	39.3	38.9	35.9	39.2
26	38.0	43.2	45.7	40.8	48.4	44.1	51.3	50.0	50.3	51.2	51.0	51.1	50.6	50.4	49.3	47.4	45.6	42.4	41.1
27	36.0	42.9	44.9	46.9	48.3	49.5	50.7	52.9	50.3	53.4	52.1	52.9	52.3	52.1	51.4	49.8	48.4	45.4	43.4
28	34.2	41.4	44.5	48.9	47.3	40.9	46.3	44.4	49.8	52.4	52.2	51.9	51.4	50.8	49.2	48.4	47.2	44.6	41.9
29	34.2	41.5	44.4	48.9	49.8	51.6	52.5	54.4	54.7	54.6	55.2	50.9	52.5	50.4	49.9	49.8	46.4	45.9	42.9
30	33.5	40.7	43.2	47.1	48.6	51.9	50.7	52.2	52.3	50.6	52.7	53.4	52.5	51.3	50.9	48.4	46.4	43.0	40.2
31	33.1	40.0	43.6	47.0	48.6	51.0	52.4	52.4	51.2	42.4	41.9	49.8	51.1	50.4	49.6	47.6	46.1	43.1	38.6
Means.	31.98	39.72	42.50	46.01	47.18	48.38	49.82	49.71	50.24	49.78	51.10	49.76	50.69	50.04	48.66	47.67	45.49	42.39	37.52

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

AUGUST. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	16.1	15.5	11.9	13.4	11.3	19.9	16.1	10.8	5.4	2.2	2.7	2.2	—
2	16.6	11.3	10.8	10.8	10.2	7.6	9.7	7.0	5.4	2.7	3.2	3.2	—
3	8.1	5.9	7.6	7.0	5.9	5.9	5.9	7.0	3.2	2.7	— 1.1	2.7	—
4	10.8	11.9	8.6	8.1	7.6	9.2	10.8	10.8	5.4	2.7	1.1	0.0	—
5	5.4	6.5	9.2	5.9	5.9	5.4	5.4	6.5	4.8	3.8	0.0	1.6	—
6	8.6	6.5	8.6	10.8	8.6	8.1	13.4	10.8	5.4	3.8	1.6	0.5	—
7	12.9	10.2	8.1	8.6	9.7	7.0	11.9	7.6	5.9	4.8	3.2	3.2	—
8	10.8	7.6	7.0	7.0	5.9	6.5	7.6	4.3	3.2	1.1	1.1	1.1	—
9	16.6	11.9	6.5	1.1	7.6	5.4	9.7	5.4	1.1	0.5	1.1	0.5	—
10	13.4	13.4	11.3	12.4	12.4	14.5	14.5	12.4	6.5	2.7	2.2	1.6	—
11	8.6	7.6	5.9	8.1	9.2	12.4	9.7	4.8	3.8	1.1	2.2	1.6	—
12	5.4	4.3	7.0	P N	P N	7.6	30.1	12.4	5.4	3.2	2.7	2.7	—
13	2.7	5.4	5.4	5.9	5.4	5.9	10.2	5.4	4.3	3.8	2.7	2.2	—
14	—	—	—	—	—	—	—	8.1	5.9	2.7	2.7	2.2	—
15	10.8	10.8	9.2	8.6	5.9	8.1	14.5	3.8	2.7	2.2	2.7	3.2	—
16	8.1	6.5	7.0	7.6	8.1	9.7	9.7	6.5	1.6	1.1	1.1	2.2	—
17	8.6	7.0	6.5	4.8	4.8	3.8	4.3	4.8	2.7	1.1	0.5	0.5	—
18	3.8	3.2	3.8	3.8	4.8	4.3	4.3	5.4	2.7	1.6	1.6	2.2	—
19	12.4	13.4	15.5	11.9	8.1	10.8	12.9	3.8	4.3	2.7	0.0	— 3.8	—
20	3.2	3.8	4.3	4.3	4.8	3.8	3.8	3.8	3.2	2.2	3.8	2.7	—
21	4.8	4.3	3.8	3.2	3.2	4.3	2.7	2.7	0.0	— 0.5	0.0	0.5	—
22	2.7	3.8	3.8	3.8	3.8	3.2	2.2	3.2	2.2	0.5	1.1	0.0	—
23	N	— 8.1	0.0	5.4	3.8	3.8	6.5	1.6	1.6	1.6	1.6	1.6	—
24	5.9	4.8	6.5	8.1	7.6	9.2	7.0	—	3.2	1.6	0.0	— 0.5	—
25	P N	P N	P N	10.2	P N	13.9	10.8	4.3	5.4	2.2	2.7	2.2	—
26	6.5	5.9	6.5	5.9	7.0	9.7	8.6	6.5	3.2	3.2	2.2	0.0	—
27	7.0	3.8	7.0	7.0	6.5	5.9	9.2	6.5	3.2	2.7	2.2	0.0	—
28	4.8	4.8	5.4	7.0	4.8	7.0	4.8	3.8	1.6	2.2	0.0	0.5	—
29	11.3	8.6	9.7	7.0	6.5	8.1	5.4	4.3	1.6	2.2	3.2	3.2	—
30	8.1	5.9	5.9	4.3	4.3	4.8	6.5	—	—	—	—	1.6	—
31	9.7	11.9	10.8	8.1	8.1	4.8	3.8	3.2	2.7	— 1.1	1.1	1.1	—
Hourly Means.	8.7	7.2	7.4	7.2	6.9	7.7	9.1	6.1	3.6	2.1	1.6	1.4	—

AUGUST. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	3.2	1.6	0.5	0.5	2.7	6.5	13.4	7.6	9.2	10.8	12.4	14.5	8.8
2	1.6	2.7	3.8	0.5	3.8	4.8	11.3	15.5	10.2	5.9	8.1	5.4	7.2
3	1.6	1.6	0.5	1.6	1.6	2.7	9.2	10.8	9.2	11.3	9.2	12.4	5.5
4	2.2	1.6	1.1	0.5	4.3	7.6	—	—	—	—	5.9	5.9	5.8
5	— 5.4	2.2	2.7	1.6	3.8	8.6	9.2	9.7	10.2	11.3	12.9	9.2	5.7
6	1.6	1.6	— 0.5	1.6	5.4	4.8	9.7	8.1	10.8	14.5	13.4	10.8	7.0
7	0.5	— 2.7	4.3	1.1	2.7	5.9	5.9	11.3	12.4	13.4	10.2	8.1	6.9
8	0.0	0.5	— 1.1	1.1	3.2	6.5	10.8	12.9	16.1	15.0	11.9	18.3	6.6
9	1.1	0.0	2.2	1.6	2.7	4.8	8.1	8.6	10.2	13.4	11.3	11.9	6.0
10	1.6	2.7	1.1	3.2	21.5	— 0.5	2.7	10.8	18.3	10.8	7.0	7.6	8.5
11	1.6	0.0	— 2.2	1.6	5.4	8.6	12.9	1.6	4.8	5.4	4.8	5.4	5.2
12	0.5	2.7	3.2	3.2	3.8	5.9	8.6	8.1	2.7	2.2	2.2	2.2	5.7
13	2.2	2.2	2.7	2.2	3.8	4.3	4.8	7.0	8.1	6.5	9.2	—	4.9
14	2.7	2.2	3.2	3.8	3.2	6.5	7.6	3.8	6.5	7.0	10.2	12.4	5.3
15	2.7	1.6	— 1.6	— 0.5	4.3	4.8	4.8	9.2	4.8	4.8	5.9	5.4	5.4
16	2.2	1.1	0.0	0.5	1.6	2.7	3.2	4.3	6.5	8.1	10.2	9.7	5.0
17	2.2	0.5	0.0	0.0	1.6	1.6	1.6	2.2	2.7	2.7	2.7	3.2	2.9
18	0.5	0.0	— 0.5	0.0	0.0	0.5	1.6	1.1	3.8	4.3	5.9	12.4	3.0
19	0.0	— 2.7	— 1.1	0.0	— 0.5	0.0	— 1.6	5.9	5.9	5.9	3.2	2.7	4.6
20	— 1.6	1.1	0.0	1.1	2.2	1.6	2.7	4.8	7.0	5.4	5.9	6.5	3.4
21	— 4.3	— 0.5	— 0.5	— 0.5	— 0.5	1.1	2.7	5.9	5.9	5.4	3.2	3.8	2.1
22	1.1	0.5	— 0.5	1.1	0.5	2.2	4.3	4.8	3.8	3.2	2.2	2.2	2.3
23	2.2	1.6	1.1	3.2	3.2	4.8	8.1	4.8	7.0	5.9	5.9	5.4	3.2
24	0.0	0.0	— 1.1	— 0.5	0.5	2.2	4.8	6.5	3.8	5.4	8.6	8.1	4.0
25	2.2	1.6	2.7	2.7	3.2	4.3	8.1	11.3	12.9	10.8	11.3	8.1	6.6
26	1.6	1.1	-- 1.1	1.6	1.1	1.6	5.4	5.9	7.0	5.4	5.9	5.9	4.4
27	1.6	3.2	3.2	2.7	3.2	2.2	3.2	4.8	5.9	5.4	7.6	5.4	4.6
28	1.6	1.1	2.2	1.6	2.2	3.2	4.8	5.9	8.1	10.2	9.2	7.0	4.3
29	2.2	1.6	1.6	1.6	3.2	3.2	4.8	4.8	6 5	8.1	5.4	8.1	5.1
30	0.0	— 0.5	0.5	1.1	0.0	0.5	3.2	2.7	5.9	10.8	7.6	10.2	4.2
31	0.5	1.1	0.0	0.5	— 0.5	— 1.6	1.6	2.7	8.1	8.1	5.9	2.7	3.9
Hourly Means.	1.0	1.0	0.9	1.3	3.0	3.6	5.9	6.8	7.8	7.9	7.6	7.7	5.14

BAROMETRIC PRESSURE.

BAROMETER AT 0° C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

SEPTEMBER. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	11.00	10.56	10.26	10.39	10.40	10.66	10.77	11.25	11.46	11.30	10.77	10.16	—
2	10.13	9.65	9.61	9.26	9.69	9.85	10.31	10.68	10.69	10.50	9.75	9.14	—
3	10.04	9.72	9.19	9.20	9.79	10.20	10.21	10.40	10.80	10.65	10.14	9.57	—
4	10.43	10.44	10.29	10.27	10.19	10.68	11.34	11.70	11.69	11.20	10.72	9.99	—
5	9.44	9.10	8.86	8.79	9.05	9.46	9.64	10.43	10.48	10.13	9.62	9.08	—
6	8.95	8.51	8.40	8.26	8.27	8.69	9.26	9.61	9.66	9.28	8.74	7.76	—
7	9.04	8.42	8.19	8.11	8.20	8.63	9.06	9.35	9.65	9.53	8.88	8.20	—
8	8.99	8.69	8.42	8.48	8.76	9.18	9.58	9.99	10.14	9.85	9.35	8.78	—
9	8.64	8.30	7.93	7.84	7.99	8.51	8.99	9.35	9.48	9.53	8.93	8.29	—
10	8.81	8.48	8.30	7.97	8.24	8.43	8.85	9.13	9.29	8.92	8.20	7.45	—
11	8.10	7.88	7.63	7.68	7.84	8.04	8.68	9.23	9.35	9.10	8.16	7.36	—
12	7.99	7.61	7.64	7.65	7.84	8.16	8.64	8.85	9.03	8.85	8.25	7.42	—
13	8.29	8.03	7.80	7.73	7.74	8.01	8.20	8.48	8.78	8.73	8.27	7.71	—
14	8.65	8.49	8.21	8.34	8.50	8.91	9.43	9.76	9.86	9.59	8.89	8.16	—
15	8.08	7.73	7.74	7.90	7.94	8.34	8.60	9.00	9.48	9.04	8.42	7.72	—
16	7.89	7.80	7.68	7.64	7.65	8.11	8.64	8.94	9.11	8.95	8.26	7.76	—
17	8.28	7.90	7.61	7.68	7.68	7.85	8.22	8.70	8.78	8.60	8.09	7.48	—
18	8.27	7.75	7.59	7.50	7.78	8.15	8.49	8.95	9.23	9.04	8.58	7.63	—
19	8.64	8.00	7.96	7.76	7.86	8.06	8.76	9.14	9.48	9.43	9.02	8.27	—
20	8.48	8.04	7.60	7.66	7.87	8.20	8.79	9.32	9.65	9.63	9.24	8.89	—
21	9.01	8.54	8.15	8.27	8.47	9.04	9.71	9.76	10.06	10.13	9.57	9.03	—
22	9.34	8.85	8.78	8.65	8.68	9.20	9.94	10.68	10.88	10.48	9.74	8.93	—
23	8.67	8.65	8.34	8.11	8.04	8.45	8.99	9.61	9.81	9.69	8.91	8.18	—
24	8.78	8.39	8.05	7.71	7.88	8.25	9.02	9.51	9.61	9.42	8.80	8.37	—
25	9.26	9.19	9.01	9.06	9.16	9.69	10.24	10.61	10.90	10.71	10.40	9.90	—
26	9.73	9.45	9.15	9.18	9.25	9.70	10.20	10.45	10.71	10.43	9.61	9.12	—
27	9.73	9.35	9.23	9.14	9.33	9.54	10.05	10.50	10.38	9.89	9.22	8.65	—
28	9.31	8.78	8.34	8.60	8.72	9.28	9.50	9.45	10.10	10.35	9.78	9.80	—
29	10.24	9.99	9.69	9.54	9.55	9.67	10.07	10.40	10.64	10.76	10.45	10.08	—
30	10.58	10.05	9.86	9.83	10.14	10.90	11.40	11.74	11.69	11.49	11.54	10.77	—
													—
Hourly Means.	9.09	8.74	8.52	8.47	8.62	8.99	9.45	9.83	10.03	9.84	9.28	8.66	—

SEPTEMBER. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	9.25	8.90	8.48	8.46	8.67	8.93	9.80	10.26	11.07	11.33	11.28	10.70	10.25
2	8.75	8.47	8.30	8.35	8.41	9.02	9.60	10.31	10.69	10.70	10.86	10.26	9.71
3	8.92	8.11	7.88	7.98	8.51	8.87	9.47	10.48	10.88	10.95	10.95	10.70	9.73
4	9.23	8.38	7.54	7.78	8.18	8.51	8.73	9.44	9.75	9.81	9.79	9.79	9.83
5	8.07	7.39	7.21	7.41	7.61	8.37	8.98	9.23	9.62	9.86	9.75	9.31	9.04
6	6.94	6.52	6.25	6.20	6.56	6.72	7.52	8.24	9.00	9.35	9.49	9.38	8.23
7	7.41	6.75	6.37	6.68	6.88	7.37	8.06	8.67	9.29	9.52	9.65	9.38	8.39
8	8.06	7.38	6.88	6.93	6.90	7.75	8.38	9.09	9.45	9.54	9.56	9.30	8.73
9	7.68	7.26	6.80	6.71	6.88	7.12	7.55	8.21	8.75	9.39	9.55	9.18	8.29
10	6.65	6.35	6.10	5.95	6.21	6.60	7.28	7.75	8.38	8.57	8.59	8.52	7.88
11	6.35	5.79	5.36	5.34	5.80	6.27	6.84	7.43	7.86	8.52	8.69	8.56	7.58
12	6.90	6.39	6.03	6.23	6.40	6.80	7.24	7.90	8.19	8.63	8.75	8.51	7.75
13	7.24	6.45	6.20	5.96	6.16	6.92	7.68	8.55	8.89	9.25	9.15	8.95	7.88
14	7.41	6.93	6.52	6.35	6.35	6.85	7.48	7.88	8.27	8.51	8.53	8.38	8.18
15	6.91	6.81	6.80	6.66	6.58	7.42	7.78	8.28	8.69	8.73	8.74	8.22	7.98
16	6.83	6.22	6.08	6.11	7.07	7.78	8.60	8.95	9.56	9.66	9.39	8.78	8.06
17	6.77	6.32	6.31	6.22	6.63	7.18	7.92	8.35	8.80	9.26	8.99	8.44	7.84
18	7.17	6.33	6.13	6.32	6.82	7.40	8.41	8.92	9.06	9.26	9.52	9.11	8.06
19	7.42	6.43	6.88	7.32	8.20	8.49	8.90	9.31	9.55	9.55	9.44	9.00	8.45
20	8.21	7.70	7.42	7.22	7.43	8.18	8.65	9.08	9.53	9.75	9.89	9.54	8.58
21	8.32	7.73	7.37	7.28	7.42	7.98	8.57	9.36	9.97	10.18	10.18	9.86	8.92
22	8.26	7.90	7.65	7.37	7.72	8.28	8.78	9.43	9.67	9.86	9.66	9.19	9.08
23	7.25	6.48	6.22	6.12	6.33	7.10	8.14	8.64	9.19	9.59	9.50	9.20	8.30
24	7.53	7.14	6.52	6.61	6.96	7.77	8.48	8.96	9.45	9.75	9.59	9.55	8.42
25	9.26	8.62	8.47	8.18	8.57	8.93	9.27	9.87	10.35	10.55	10.51	10.15	9.62
26	8.75	8.40	8.15	7.76	8.33	9.00	9.69	9.85	10.17	10.70	10.74	10.28	9.53
27	7.91	7.25	6.78	6.58	7.42	7.68	8.10	8.80	9.29	9.78	10.03	9.81	8.94
28	9.57	9.48	9.29	9.54	9.75	10.01	10.01	10.32	10.44	10.67	10.67	10.49	9.68
29	9.52	9.16	8.62	8.37	8.48	8.78	9.35	9.91	10.53	10.93	10.70	10.83	9.84
30	9.99	9.23	9.07	9.17	9.59	9.88	10.68	10.84	11.24	11.33	10.94	10.91	10.54
Hourly Means.	7.95	7.41	7.12	7.11	7.43	7.93	8.53	9.08	9.52	9.78	9.77	9.48	8.78

STANDARD THERMOMETER.

SEPTEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	75.1	75.0	74.4	73.6	73.2	73.0	74.4	77.8	80.7	84.0	85.0	86.8	—
2	76.0	76.0	76.2	75.8	75.1	74.9	75.3	78.1	81.0	84.0	87.0	86.0	—
3	76.1	76.0	75.8	75.5	75.1	74.5	75.0	76.2	78.9	82.6	85.5	86.8	—
4	77.0	76.6	76.0	76.0	75.6	74.9	75.8	79.0	82.0	85.0	87.0	87.0	—
5	76.0	75.1	74.7	74.1	74.1	73.7	74.0	76.0	79.5	81.8	85.0	86.2	—
6	74.2	73.4	73.4	73.2	72.6	72.4	73.9	77.6	81.0	85.0	87.4	89.4	—
7	76.2	76.2	75.8	75.0	74.1	73.4	73.8	76.7	80.7	84.7	87.9	89.7	—
8	76.8	76.0	75.2	74.6	74.0	73.8	75.5	78.9	82.4	84.8	87.0	88.2	—
9	76.0	75.5	75.2	74.6	74.0	73.1	74.0	78.0	81.2	84.0	86.2	86.5	—
10	77.1	76.7	76.0	75.4	74.9	74.7	75.6	78.6	82.1	84.5	87.1	88.1	—
11	78.0	77.2	77.0	76.7	76.4	76.0	75.9	78.4	81.7	84.0	86.2	87.0	—
12	77.0	76.3	75.6	75.4	75.2	74.9	75.7	79.3	82.2	85.2	86.9	88.7	—
13	77.2	76.5	76.0	75.2	74.8	74.2	74.9	78.8	82.5	85.3	87.1	87.5	—
14	75.6	75.1	74.6	73.8	73.6	73.4	74.2	76.0	80.2	82.6	85.0	86.6	—
15	77.0	76.3	75.8	75.6	75.1	74.8	76.0	79.3	82.1	84.5	85.9	87.2	—
16	76.1	76.0	76.3	75.6	75.2	74.7	75.7	79.7	82.9	85.5	86.5	83.9	—
17	74.6	74.2	74.2	73.9	73.9	73.7	74.5	77.7	82.3	85.0	85.0	86.2	—
18	76.0	75.5	75.2	74.6	74.0	74.0	74.1	76.4	80.0	82.8	84.0	86.4	—
19	75.1	74.9	74.6	74.5	74.8	74.8	76.0	77.0	79.2	81.8	84.0	85.7	—
20	74.5	74.0	73.9	73.4	73.0	72.6	73.1	74.2	77.0	80.0	81.3	82.6	—
21	75.0	74.3	73.9	73.3	73.0	72.4	73.2	77.0	81.5	84.0	86.5	88.4	—
22	77.2	76.9	76.9	76.4	75.0	74.2	75.4	79.0	80.7	84.4	86.5	87.0	—
23	76.0	75.0	74.4	74.2	73.8	73.8	74.2	75.6	78.3	81.0	82.8	83.0	—
24	75.1	75.0	74.7	74.7	74.5	74.1	74.6	77.0	80.8	84.4	86.8	86.4	—
25	75.3	74.9	74.5	74.3	74.3	74.3	74.8	76.0	78.0	80.6	82.6	84.6	—
26	76.5	76.3	76.0	76.0	76.1	76.0	76.8	79.8	83.1	85.7	88.5	88.7	—
27	76.6	76.5	76.3	76.0	75.8	75.5	76.5	79.1	82.5	85.7	89.0	87.7	—
28	77.1	76.8	76.5	76.5	76.1	75.8	76.4	79.4	82.0	84.6	84.2	78.0	—
29	73.0	72.7	72.7	72.3	72.1	72.1	73.0	75.0	77.3	79.8	82.0	83.7	—
30	75.8	75.6	75.3	75.1	75.0	75.0	75.6	75.8	77.7	81.0	75.4	76.8	—
													—
Hourly Means.	75.97	75.55	75.24	74.84	74.48	74.16	74.93	77.58	80.72	83.61	85.38	86.03	—

SEPTEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	88.6	86.7	86.0	84.6	84.9	82.7	81.8	80.0	78.7	78.0	77.5	76.5	79.96
2	87.2	85.3	85.5	84.4	83.2	82.2	81.6	80.4	80.0	78.7	77.3	76.3	80.31
3	86.0	85.4	86.5	86.5	84.5	83.7	81.5	80.7	80.3	79.2	78.0	77.4	80.32
4	86.9	86.3	85.5	84.5	82.9	82.1	79.7	77.7	76.6	76.0	76.3	76.1	80.10
5	87.5	88.1	86.0	85.2	84.0	82.8	81.8	79.0	77.2	76.2	75.3	75.0	79.51
6	89.5	89.7	89.3	87.7	85.7	83.1	81.0	80.2	78.5	77.8	77.0	77.0	80.42
7	89.0	88.4	90.0	86.3	85.0	83.0	81.7	80.2	79.4	79.0	78.4	77.7	80.93
8	87.6	88.0	86.6	85.1	84.6	83.5	80.0	78.7	78.2	77.6	76.8	76.4	80.43
9	87.3	86.3	86.0	84.7	83.6	82.6	81.5	80.2	79.5	78.7	78.3	77.7	80.20
10	88.5	87.2	86.6	85.0	83.5	82.4	81.6	81.1	80.3	80.1	78.9	78.4	81.02
11	87.0	87.0	86.5	85.0	83.2	82.4	82.4	80.0	79.0	78.0	78.0	77.6	80.86
12	86.6	86.9	86.5	85.2	84.4	83.4	82.6	81.1	80.3	79.6	78.7	78.0	81.07
13	87.5	87.5	87.2	87.0	86.0	83.7	82.2	81.5	80.1	78.5	77.7	76.5	81.06
14	86.0	86.8	85.5	85.3	84.9	83.0	81.8	80.5	79.5	78.6	78.0	77.8	79.93
15	86.5	84.6	82.8	81.2	82.0	80.8	79.2	78.3	77.7	77.0	77.0	76.6	79.72
16	84.5	86.2	87.0	85.2	84.0	82.8	79.0	77.8	77.0	76.0	75.4	75.0	79.92
17	85.8	86.7	82.5	83.1	83.9	82.8	80.0	78.4	77.8	77.0	76.6	76.2	79.42
18	86.5	86.7	84.7	84.3	83.1	82.0	80.0	79.2	78.0	77.2	76.2	75.7	79.44
19	86.0	86.1	84.4	82.4	77.0	73.4	73.1	74.0	74.5	75.1	74.8	74.6	77.83
20	84.0	84.8	84.0	83.7	83.2	81.8	79.6	78.6	77.1	76.9	76.3	75.5	78.13
21	87.7	86.6	85.5	84.8	83.4	82.2	82.0	80.6	79.4	79.0	78.0	77.6	79.97
22	86.2	86.6	84.7	84.1	83.1	82.0	81.0	80.0	79.0	78.0	77.0	76.1	80.31
23	84.0	85.5	85.5	84.0	83.0	82.0	81.0	80.0	78.7	77.3	76.2	75.8	78.96
24	85.2	85.8	85.2	85.0	84.0	82.8	81.3	79.1	77.8	77.4	76.5	76.0	79.76
25	84.6	85.2	84.2	84.0	83.6	82.5	81.9	80.7	80.1	78.5	78.0	77.1	79.36
26	88.3	87.2	86.5	85.7	84.3	83.1	82.3	81.0	79.6	78.4	77.8	77.4	81.30
27	87.4	87.4	88.0	87.7	86.3	84.6	81.2	79.1	78.5	77.9	77.2	77.2	81.24
28	78.2	76.2	75.6	73.8	73.5	73.2	73.0	73.0	73.0	73.0	73.0	73.0	76.33
29	85.0	82.9	82.3	82.9	82.7	81.5	80.0	78.7	77.5	76.6	76.5	76.1	77.85
30	79.8	83.0	81.0	81.0	80.1	79.2	77.2	76.4	75.9	75.2	74.9	74.6	77.18
Hourly Means.	86.16	86.04	85.25	84.31	83.25	81.91	80.43	79.21	78.31	77.55	76.92	76.43	79.76

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER. 1	863	871	888	903	911	911	862	798	746	603	588	578	—
2	898	906	906	915	930	922	880	837	816	648	567	656	—
3	948	948	940	906	947	947	956	940	847	702	647	602	—
4	900	899	906	906	905	922	898	823	736	625	596	639	—
5	881	897	897	896	878	877	878	856	780	721	607	613	—
6	887	920	920	920	929	928	903	798	698	582	482	423	—
7	833	856	864	879	895	903	877	773	662	587	513	441	—
8	882	898	905	904	912	903	848	793	702	600	562	561	—
9	864	889	897	904	887	894	845	744	664	608	545	571	—
10	834	842	864	855	839	846	815	754	653	611	538	578	—
11	829	835	827	826	841	849	848	792	707	641	600	562	—
12	883	890	905	905	914	913	872	734	681	614	562	541	—
13	891	899	906	930	922	913	879	784	689	596	562	581	—
14	864	871	870	895	894	894	869	848	723	662	625	559	—
15	858	890	889	889	880	879	833	772	701	643	604	622	—
16	906	906	890	905	914	922	898	751	650	603	577	741	—
17	921	930	930	929	929	929	904	845	689	594	659	631	—
18	923	931	939	939	930	930	921	866	796	711	667	619	—
19	897	905	922	921	922	922	914	858	808	784	706	653	—
20	871	887	887	903	911	902	894	879	812	730	719	689	—
21	913	921	929	937	937	937	894	774	631	554	530	495	—
22	742	741	695	702	782	837	799	676	668	573	546	537	—
23	887	854	862	861	869	887	904	880	830	733	710	711	—
24	880	871	888	854	854	861	863	827	691	605	560	631	—
25	905	913	913	913	904	887	871	856	829	732	675	637	—
26	882	882	898	906	899	898	874	781	678	629	580	570	—
27	874	874	882	889	898	898	890	832	731	624	542	582	—
28	867	882	890	890	898	898	882	786	758	696	688	820	—
29	937	955	946	964	964	964	955	930	844	786	688	653	—
30	923	931	939	939	956	965	966	957	925	798	914	932	—
Hourly Means.	881	890	893	896	902	905	883	818	738	653	612	614	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER. 1	512	590	617	668	625	709	762	809	837	844	859	882	760
2	622	678	672	682	725	750	770	818	833	918	924	940	801
3	675	699	677	632	611	734	776	819	841	878	893	883	810
4	632	637	660	682	703	771	765	796	833	864	857	865	784
5	581	554	605	653	667	717	763	770	811	833	863	871	770
6	461	445	433	417	453	559	633	679	746	774	787	795	691
7	546	544	473	545	606	683	748	802	816	831	829	852	723
8	581	583	589	665	716	705	787	838	852	835	850	849	763
9	557	593	610	611	652	702	719	766	848	822	837	828	744
10	561	573	577	614	646	669	749	769	788	795	777	837	724
11	609	652	650	703	718	751	765	757	784	829	836	875	754
12	663	583	600	652	681	718	744	797	811	840	853	876	760
13	581	581	579	468	551	639	687	705	751	791	819	849	731
14	580	590	653	678	664	670	699	767	794	807	821	829	755
15	613	676	709	836	822	872	847	868	884	899	883	899	803
16	676	599	621	632	666	752	830	859	891	905	905	913	788
17	623	627	778	752	699	745	848	893	892	907	906	923	812
18	644	627	682	648	703	764	833	862	876	867	882	881	810
19	641	624	642	701	850	894	852	812	797	791	863	879	815
20	674	683	707	720	753	777	863	901	940	916	899	898	826
21	517	571	621	612	651	700	742	797	839	740	700	698	735
22	575	577	617	602	624	686	754	787	792	805	834	865	701
23	666	584	590	647	703	736	747	773	807	851	881	872	785
24	652	635	659	606	666	710	748	838	836	843	874	889	764
25	643	621	642	641	665	716	756	804	817	861	876	891	790
26	614	610	588	640	687	718	765	797	840	829	835	851	760
27	654	635	601	612	675	722	782	831	852	859	875	875	770
28	845	899	931	938	946	955	955	955	955	955	955	955	883
29	670	731	715	703	731	791	833	854	875	899	906	915	842
30	863	760	732	783	811	870	883	899	906	939	939	939	895
Hourly Means.	624	625	641	658	689	740	780	814	838	851	861	872	778

DIRECTION OF THE WIND.

SEPTEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
1	C	E	E	E	SSE	SSE	S	S	SW	ENE	ESE	E
2	C	NE	NE	NE	NE	C	NE	S	SSW	SE	E	NE
3	C	N	N	N	C	C	N	C	N	ENE	ENE	E
4	C	C	E	E	E	C	E	E	SW	ESE	NNW	NNE
5	NE	C	NE	NE	NE	NE	NE	NE	SW	W	W	NW
6	WSW	WSW	WSW	WSW	WSW	C	WSW	SW	ESE	ESE	ESE	ENE
7	C	C	C	C	C	E	E	S	S	E	E	E
8	C	C	C	C	C	NE	ENE	SSW	SW	ESE	ENE	NNE
9	SSW	C	C	C	C	C	SSW	SW	S	SE	E	NE
10	NE	NE	NE	NE	NE	NE	S	SSW	SSW	SW	SSE	NE
11	NE	NE	NE	NE	NE	C	NE	ENE	SSW	SW	WSW	NW
12	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	E	ESE	ESE
13	C	C	C	NE	NE	NE	NE	ESE	E	ENE	E	NE
14	C	E	C	E	E	E	E	C	E	E	E	E
15	C	C	C	C	ENE	ENE	ENE	ENE	ENE	NNE	N	NE
16	SSE	SSE	SSE	SSE	SSE	C	SSE	SE	E	E	ESE	NE
17	SW	SW	C	C	C	C	SW	SW	E	ESE	ENE	NE
18	C	C	C	C	C	C	SE	SE	SE	E	E	E
19	C	C	C	C	NNW	NNW	NNW	NNW	WNW	W	WNW	W
20	C	WSW	WSW	C	WSW	WSW	C	WSW	WSW	ESE	ESE	SE
21	C	SW	SW	C	C	C	SW	SW	SSW	SSW	S	SW
22	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	NE
23	W	W	W	W	W	W	W	C	W	NW	NNE	N
24	NE	NE	NE	NE	NE	C	NE	NE	NE	NE	ESE	NNE
25	C	C	C	SE	SE	SE	SE	C	SE	SE	SE	NE
26	C	C	C	NNE	NNE	NNE	NNE	E	SSE	SSE	ESE	NNE
27	NNE	C	C	C	NNE	C	NNE	NNE	NE	E	E	N
28	ENE	ENE	ENE	ENE	ENE	ENE	ENE	S	S	SW	NNE	ENE
29	C	C	C	C	C	C	C	E	E	E	NE	NE
30	NE	NE	NE	C	NE	C	NE	C	NE	NE	NE	NE

SEPTEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
1	ESE	NNE	NNE	NNE	ENE	NE	NE	NE	NE	C	C	C
2	N	NE	N	NNE	NNE	N	N	C	C	NW	N	N
3	NNE	NE	NE	E	E	E	E	C	C	C	C	C
4	NNE	NNE	NE	NNE	N	N	N	N	N	N	N	NE
5	N	N	N	N	N	NNW	NNW	WSW	WSW	WSW	C	WSW
6	E	E	E	E	E	E	E	E	E	C	C	C
7	NE	NE	NE	NE	NE	NE	NE	C	C	C	C	C
8	NE	NE	NE	NE	NE	SSE	SSW	SSW	SSW	SSW	SSW	SSW
9	NNE	NNE	NE	NE	NE	NE	NE	C	C	NE	NE	NE
10	NE	NE	NE	NNE	NE	NE	NE	C	C	NE	NE	NE
11	NNE	NNE	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE
12	N	NE	NE	NE	NE	NE	NE	C	NE	NE	NE	C
13	NNE	NE	NE	E	ENE	E	E	E	C	C	C	C
14	ESE	ENE	NE	NE	NE	NE	ENE	C	C	ENE	C	C
15	NNE	NNE	S	S	S	S	S	C	C	S	SSE	SSE
16	N	NE	NE	NE	NE	NE	SW	SW	SW	SW	SW	C
17	NE	NNE	N	NNE	NNE	NE	NE	SE	SE	SE	SE	SE
18	NNE	NNE	N	N	NNW	NNW	NNW	NNW	C	NNW	NNW	C
19	NW	W	W	SW	WSW	W	WSW	WSW	WSW	WSW	WSW	C
20	SE	SE	ESE	E	E	SSE	SW	SW	SW	C	SW	SW
21	N	N	NNE	N	N	N	N	C	N	W	W	WSW
22	NNE	NNE	N	N	N	N	N	C	C	C	C	N
23	N	N	NNE	N	N	N	N	NNE	NNE	NE	NE	NE
24	N	N	N	NE	ENE	ENE	ENE	SE	SE	C	SE	SE
25	NNE	N	N	NNE	NNE	NNE	C	C	C	C	C	C
26	NNE	N	NE	NNE	NE	NNE	C	C	C	NNE	NNE	C
27	N	N	NE	NE	ENE	ENE	ENE	ENE	ENE	C	ENE	ENE
28	E	E	NE	NNE	NNE	NNE	NE	E	C	C	C	C
29	NE	NNE	NE	NNE	NE	NE	NE	NE	C	C	C	NE
30	NNW	NNE	SW	S	S	S	S	S	S	S	S	S

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

SEPTEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.0	1.6	1.6	3.2	3.2	3.2	5.6	4.8	4.0	4.8	4.8	5.6	—
2	0.0	1.6	0.8	0.8	0.8	0.0	1.6	4.8	4.0	4.8	6.4	10.5	—
3	0.0	1.6	0.8	0.8	0.0	0.0	0.8	0.0	1.6	6.4	13.7	14.5	—
4	0.0	0.0	1.6	0.8	0.8	0.0	0.8	3.2	3.2	4.8	7.2	9.7	—
5	0.8	0.0	0.8	1.6	3.2	1.6	1.6	1.6	3.2	3.2	3.2	5.6	—
6	2.4	2.4	2.4	2.4	1.6	0.0	3.2	4.8	8.0	14.5	17.7	19.3	—
7	0.0	0.0	0.0	0.0	0.0	1.6	5.6	3.2	3.2	6.4	11.3	14.5	—
8	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.0	5.6	3.2	6.4	6.4	—
9	0.8	0.0	0.0	0.0	0.0	0.0	3.2	8.9	6.4	4.8	6.4	9.7	—
10	3.2	2.4	1.6	2.4	2.4	3.2	6.4	7.2	7.2	4.0	7.2	9.7	—
11	3.2	1.6	1.6	1.6	1.6	0.0	2.4	4.0	4.8	4.0	4.8	4.0	—
12	0.8	1.6	0.8	1.6	1.6	0.8	1.6	0.8	4.0	9.7	7.2	6.4	—
13	0.0	0.0	0.0	0.8	0.8	1.6	1.6	4.0	7.2	8.9	6.4	11.3	—
14	0.0	0.8	0.0	0.8	0.8	1.6	1.6	0.0	4.8	10.5	10.5	12.1	—
15	0.0	0.0	0.0	0.0	0.8	1.6	4.0	4.8	4.8	7.2	10.5	12.9	—
16	1.6	1.6	1.6	0.8	0.8	0.0	3.2	7.2	13.7	14.5	12.9	9.7	—
17	0.8	2.4	0.0	0.0	0.0	0.0	1.6	1.6	8.0	10.5	8.9	10.5	—
18	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	3.2	6.4	7.2	7.2	—
19	0.0	0.0	0.0	0.0	0.8	1.6	1.6	2.4	5.6	6.4	8.0	9.7	—
20	0.0	1.6	0.8	0.0	1.6	1.6	0.0	0.8	4.8	7.2	4.8	5.6	—
21	0.0	0.8	0.8	0.0	0.0	0.0	1.6	6.4	9.7	8.0	7.2	5.6	—
22	4.8	7.2	14.5	6.4	0.8	1.6	3.2	5.6	11.3	8.9	6.4	11.3	—
23	3.2	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.8	2.4	4.8	5.6	—
24	0.8	0.8	0.8	1.6	0.8	0.0	1.6	0.8	4.0	6.4	9.7	12.1	—
25	0.0	0.0	0.0	1.6	3.2	4.8	1.6	0.0	1.6	2.4	3.2	4.8	—
26	0.0	0.0	0.0	0.8	0.8	0.8	1.6	0.8	4.8	8.0	8.9	10.5	—
27	0.8	0.0	0.0	0.0	0.8	0.0	0.8	0.8	5.6	8.9	14.5	12.9	—
28	0.8	0.8	0.8	1.6	1.6	1.6	3.2	4.0	4.8	3.2	7.2	9.7	—
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	4.0	7.2	12.1	—
30	0.8	0.8	1.6	0.0	1.6	0.0	1.6	0.0	1.6	9.7	4.0	3.2	—
Hourly Means.	0.83	1.04	1.15	1.01	1.04	0.99	2.24	2.96	5.10	6.80	7.95	9.42	—

SEPTEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	11.3	12.9	13.7	9.7	12.1	4.8	2.4	0.8	0.8	0.0	0.0	0.0	4.62
2	12.1	15.3	12.9	12.1	8.9	3.2	0.8	0.0	0.0	3.2	0.8	0.8	4.43
3	12.1	12.1	18.5	16.1	12.1	6.4	1.6	0.0	0.0	0.0	0.0	0.0	4.96
4	12.9	16.1	16.1	8.9	4.0	1.6	1.6	2.4	0.8	0.8	1.6	3.2	4.25
5	8.0	9.7	13.7	12.9	8.0	4.8	2.4	4.8	2.4	0.8	0.0	2.4	4.01
6	19.3	17.7	22.5	21.7	17.7	7.2	3.2	3.2	0.8	0.0	0.0	0.0	8.00
7	14.5	16.1	20.9	20.9	15.3	6.4	0.8	0.0	0.0	0.0	0.0	0.0	5.86
8	11.3	14.5	18.5	16.1	12.9	8.0	5.6	6.4	4.8	4.8	2.4	2.4	5.75
9	12.9	15.3	12.9	12.1	10.5	4.0	0.8	0.0	0.0	0.8	1.6	0.8	4.66
10	11.3	16.1	16.1	15.3	10.5	6.4	0.8	0.0	0.0	0.8	4.0	3.2	5.89
11	6.4	11.3	12.9	14.5	12.9	5.6	1.6	2.4	1.6	3.2	0.8	1.6	4.52
12	13.7	15.3	15.3	14.5	8.0	4.8	0.8	0.0	0.8	1.6	1.6	0.0	4.72
13	14.5	17.7	16.9	15.3	12.9	7.2	4.0	1.6	0.0	0.0	0.0	0.0	5.53
14	11.3	8.9	8.0	9.7	11.3	7.2	1.6	0.0	0.0	0.8	0.0	0.0	4.26
15	13.7	9.7	6.4	1.6	2.4	4.8	1.6	0.0	0.0	1.6	4.8	1.6	3.95
16	12.9	20.1	20.1	18.5	14.5	7.2	8.9	4.0	1.6	1.6	0.8	0.0	7.41
17	11.3	15.3	10.5	8.9	8.0	3.2	4.0	3.2	1.6	0.8	0.8	1.6	4.73
18	8.0	12.1	10.5	8.0	3.2	0.8	1.6	0.8	0.0	0.8	0.8	0.0	3.04
19	11.3	9.7	9.7	8.0	8.0	8.0	5.6	3.2	1.6	3.2	1.6	0.0	4.42
20	3.2	3.2	3.2	3.2	1.6	5.6	1.6	0.8	1.6	0.0	0.8	0.8	2.27
21	4.8	10.5	12.1	12.1	9.7	3.2	0.8	0.0	3.2	4.0	4.8	5.6	4.62
22	14.5	14.5	12.9	12.1	8.9	4.0	0.8	0.0	0.0	0.0	0.0	1.6	6.30
23	3.2	5.6	11.3	8.0	4.8	0.8	3.2	0.8	1.6	1.6	1.6	0.8	2.77
24	8.9	10.5	10.5	10.5	6.4	3.2	2.4	3.2	0.8	0.0	2.4	0.8	4.13
25	4.8	5.6	8.0	8.9	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.44
26	14.5	15.3	15.3	14.5	10.5	3.2	0.0	0.0	0.0	1.6	0.8	0.0	4.70
27	10.5	12.9	17.7	15.3	6.4	1.6	1.6	3.2	1.6	0.0	0.8	0.8	4.90
28	9.7	4.8	8.0	3.2	0.8	3.2	3.2	1.6	0.0	0.0	0.0	0.0	3.08
29	13.7	16.1	14.5	13.7	9.7	1.6	0.8	1.6	0.0	0.0	0.0	0.8	4.13
30	4.8	7.2	4.0	8.0	0.8	1.6	2.4	0.8	0.8	3.2	1.6	0.8	2.54
Hourly Means.	10.71	12.40	13.12	11.81	8.64	4.37	2.22	1.49	0.88	1.17	1.15	0.99	4.56

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER.	1	2	2	1	3	2	2	3	1	1	7	9	5	—
	2	1	4	4	2	2	4	0	0	1	0	4	8	—
	3	10	10	6	4	5	4	10	8	8	8	9	8	—
	4	9	5	10	7	3	5	4	1	2	4	5	6	—
	5	2	1	1	2	1	2	2	2	3	2	4	8	—
	6	1	2	4	4	5	2	3	1	1	1	2	1	—
	7	8	9	4	2	2	2	0	1	1	0	1	0	—
	8	9	7	3	4	3	4	8	10	7	4	4	8	—
	9	3	7	6	1	1	3	2	1	1	1	4	5	—
	10	9	1	6	0	1	1	2	1	0	1	1	1	—
	11	10	10	10	10	10	7	3	7	3	6	6	7	—
	12	6	4	2	3	1	3	0	0	1	2	6	6	—
	13	3	2	1	7	8	3	1	0	1	3	7	7	—
	14	3	4	4	4	8	9	10	9	7	7	8	8	—
	15	5	4	9	9	9	5	4	3	1	6	3	2	—
	16	2	10	10	10	10	6	3	1	3	3	7	10	—
	17	3	3	2	5	9	3	1	0	1	7	9	9	—
	18	3	2	2	1	2	3	7	4	10	7	8	8	—
	19	6	6	8	10	10	10	10	10	10	10	9	10	—
	20	9	9	4	6	2	9	10	9	9	9	10	10	—
	21	3	2	2	2	2	5	3	2	2	2	2	3	—
	22	9	7	7	9	9	9	9	9	7	5	5	10	—
	23	2	8	9	9	10	9	10	10	10	10	10	10	—
	24	9	9	10	10	10	10	10	9	8	7	7	7	—
	25	1	2	1	8	7	9	10	10	9	9	9	10	—
	26	4	9	7	9	10	10	9	8	2	3	4	5	—
	27	2	2	1	1	3	3	2	9	5	6	4	10	—
	28	10	4	2	3	2	4	4	3	9	10	10	10	—
	29	10	10	9	6	8	9	9	9	9	9	9	7	—
	30	7	6	1	2	10	10	10	10	8	9	10	9	—
Hourly Means.		5.4	5.4	4.9	5.1	5.5	5.5	5.3	4.9	4.7	5.3	6.2	6.9	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER.	1	8	9	7	7	6	4	9	1	0	1	1	2	3.9
	2	7	4	2	2	4	4	7	8	7	10	7	6	4.1
	3	5	9	4	6	3	6	4	8	7	4	1	2	6.2
	4	5	4	4	4	4	3	5	3	4	2	2	2	4.3
	5	4	2	1	2	2	4	7	3	2	3	3	2	2.7
	6	2	1	0	0	0	3	0	0	0	3	4	10	2.1
	7	2	4	1	1	1	1	2	2	1	8	2	3	2.4
	8	8	4	0	10	10	10	10	10	7	6	1	7	6.4
	9	3	2	1	1	1	1	1	0	5	9	10	7	3.2
	10	3	2	1	1	1	4	4	9	10	10	10	10	3.7
	11	8	4	2	4	9	10	10	9	9	10	10	10	7.7
	12	7	3	1	4	8	10	4	4	8	8	8	1	4.2
	13	5	6	7	4	7	6	7	9	2	2	3	3	4.3
	14	10	10	10	10	10	7	10	8	7	6	7	8	7.7
	15	3	9	9	8	9	7	2	2	3	3	6	5	5.3
	16	9	9	8	6	8	10	10	9	6	3	1	1	6.5
	17	9	6	9	9	8	9	8	4	3	3	8	4	5.5
	18	6	6	5	5	9	6	2	2	3	3	4	2	4.6
	19	10	10	10	10	10	10	10	9	9	9	10	10	9.4
	20	10	10	10	10	10	10	10	9	5	3	2	2	7.8
	21	7	5	2	1	4	7	2	1	1	6	5	4	3.1
	22	4	3	4	2	2	6	4	3	2	3	3	2	5.5
	23	10	9	6	7	9	10	7	6	4	1	3	2	7.5
	24	8	9	10	10	10	10	10	10	6	6	4	5	8.5
	25	10	10	10	9	10	7	6	9	9	9	8	6	7.8
	26	2	1	1	3	2	3	2	1	1	0	1	1	4.1
	27	9	9	4	7	10	7	4	2	2	3	4	3	4.7
	28	10	10	10	10	10	10	10	10	10	10	10	10	8.0
	29	4	4	3	4	5	5	7	7	5	7	10	10	7.3
	30	8	7	7	7	6	4	2	3	2	2	2	4	6.1
Hourly Means.		6.5	6.0	5.0	5.5	6.3	6.5	5.9	5.4	4.7	5.1	5.0	4.8	5.49

SEPTEMBER.

Mean Batavia Time.	8–8½ A M.	8½–9	9–9½	9½–10	10–10½	10½–11	11–11½	11½–12	12–12½ P. M.	12½–1	1–1½	1½–2	2–2½	2½–3	3–3½	3½–4	Daily and Monthly Means.
1	10	10	10	10	6	0	1	2	8	7	6	2	3	5	4	0	5.3
2	10	10	10	10	10	9	4	4	6	8	6	5	9	10	8	9	8.0
3	6	8	7	4	6	8	6	6	4	9	7	1	6	8	10	8	6.5
4	10	10	8	8	6	5	8	8	9	8	10	10	8	4	7	5	7.8
5	4	8	8	5	8	10	8	1	4	8	7	7	8	10	10	10	7.3
6	10	10	10	9	9	8	8	9	8	7	10	10	10	10	10	10	9.3
7	9	10	10	10	10	10	10	10	10	8	10	9	6	10	10	10	9.5
8	9	9	10	10	5	8	8	6	2	6	7	10	10	10	8	1	7.4
9	10	10	10	10	10	10	9	4	7	9	10	10	10	10	10	10	9.3
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
11	5	8	9	9	7	4	7	6	3	2	2	7	10	10	10	10	6.8
12	9	9	9	9	7	7	5	6	7	1	7	9	9	9	4	2	6.8
13	10	10	10	10	10	9	6	2	5	7	5	3	4	5	1	4	6.3
14	0	2	6	5	7	4	5	3	2	1	0	2	2	1	3	3	2.9
15	6	9	10	10	3	8	9	8	10	5	7	0	0	0	3	0	5.5
16	10	10	7	10	8	4	4	0	0	1	1	1	3	3	8	3	4.6
17	8	10	9	8	1	1	1	2	2	1	0	3	8	3	0	0	3.6
18	9	8	3	2	3	0	1	6	1	1	8	10	5	4	5	3	4.3
19	0	1	3	3	3	5	6	1	3	3	1	0	0	2	0	0	1.9
20	0	0	5	7	3	0	0	0	0	0	1	1	0	0	0	0	1.1
21	10	10	10	10	10	10	10	10	10	6	4	4	7	10	10	10	8.8
22	4	5	7	7	6	8	8	3	6	7	6	9	9	8	6	7	6.6
23	0	0	3	0	0	0	0	0	0	0	0	0	4	8	8	6	1.8
24	3	6	8	10	10	7	8	1	2	1	4	3	1	1	0	0	4.1
25	0	0	0	0	1	0	1	0	0	0	0	3	5	0	1	0	0.7
26	5	10	10	8	6	8	6	4	8	8	10	10	8	7	8	5	7.6
27	2	9	10	8	7	7	6	6	7	4	3	3	6	6	6	3	5.8
28	6	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.8
29	7	8	2	4	2	3	1	1	7	9	9	7	6	8	9	10	5.8
30	0	3	6	6	2	0	0	0	1	3	4	7	8	2	4	9	3.4
Means.	6.1	7.3	7.4	7.1	5.9	5.4	5.2	4.0	4.7	4.7	5.2	5.2	5.8	5.8	5.8	4.9	5.66

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

SEPTEMBER.

Mean Batavia Time.	7h30 A. M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	35.9	41.4	44.6	47.9	49.6	53.5	42.0	44.9	45.3	52.3	53.9	55.4	43.3	42.7	45.4	48.2	36.9	38.4	38.5
2	36.6	43.4	45.1	48.4	49.6	51.4	51.7	54.4	42.7	47.4	47.7	52.8	48.5	45.5	49.9	47.9	44.8	43.8	41.3
3	28.3	36.2	38.6	44.3	45.2	49.4	49.1	46.0	51.1	49.4	48.6	52.4	43.9	39.4	47.9	48.4	42.4	41.5	34.9
4	35.7	41.9	44.9	47.9	48.2	47.6	47.0	54.3	52.5	53.4	50.2	52.4	52.0	51.8	52.3	44.2	47.4	37.9	31.3
5	31.9	33.4	39.4	45.3	45.2	45.8	52.0	52.4	50.9	51.4	41.6	46.9	51.8	48.8	50.6	48.7	47.6	45.3	42.9
6	37.5	43.4	45.6	48.6	48.2	49.9	48.7	50.9	51.6	52.4	52.4	51.7	52.1	51.0	50.4	48.3	47.4	45.0	42.4
7	36.2	42.4	43.8	46.4	50.1	51.4	51.6	52.9	53.0	53.4	53.2	52.9	52.9	47.9	49.5	50.1	47.6	41.9	42.3
8	34.5	40.9	41.7	48.2	48.9	50.0	46.9	51.6	54.3	49.7	48.4	47.9	51.9	51.3	50.4	48.9	42.4	40.2	35.9
9	37.8	42.9	44.1	45.9	48.2	50.7	52.1	53.2	54.2	46.7	53.1	53.3	50.8	48.0	49.2	48.9	47.3	45.4	41.4
10	38.1	42.2	44.1	49.1	50.3	51.9	52.9	52.3	53.6	53.2	53.1	53.1	52.1	51.0	50.5	48.6	47.4	44.5	39.9
11	35.6	35.9	41.6	45.5	48.3	50.9	48.9	52.2	52.1	44.4	46.7	41.4	44.9	49.6	50.4	47.4	46.8	44.1	39.4
12	39.0	41.4	44.2	46.9	49.1	50.4	49.6	50.5	54.0	51.4	53.0	46.9	50.4	51.1	49.5	47.9	43.2	39.5	34.9
13	36.2	42.6	45.1	48.0	49.6	51.4	53.3	53.3	45.4	42.4	50.5	52.4	49.1	46.9	50.4	43.4	40.4	41.4	39.4
14	26.8	32.3	35.1	45.0	45.5	45.3	43.7	50.2	49.2	50.7	47.7	43.3	44.1	43.9	41.3	40.2	39.3	41.1	39.9
15	36.7	41.3	45.9	49.3	49.7	45.4	49.3	52.8	53.2	52.8	52.3	50.6	47.1	38.0	39.9	36.4	34.7	27.9	30.4
16	38.0	43.9	46.0	45.3	49.3	46.9	42.6	46.0	41.5	31.2	37.9	37.8	42.0	48.8	39.3	51.3	42.4	41.7	33.8
17	39.8	42.9	47.7	51.9	51.3	46.9	46.2	44.9	46.7	44.4	43.4	38.9	38.3	47.4	51.5	32.0	30.3	31.9	33.9
18	28.6	42.9	44.1	38.2	36.0	42.9	42.5	43.9	51.5	42.9	40.8	50.4	55.3	46.4	48.3	40.9	34.5	38.9	33.4
19	27.6	32.3	32.4	39.4	44.4	41.6	44.6	50.4	50.0	47.4	50.6	47.6	49.0	42.4	39.9	36.4	34.7	31.2	27.7
20	27.3	29.2	34.1	41.9	44.0	39.4	38.8	39.8	40.3	41.3	42.6	43.7	41.3	41.6	39.9	36.5	36.7	36.4	33.7
21	40.2	44.3	46.1	48.1	49.5	50.9	52.1	52.2	53.1	54.4	48.6	45.5	42.7	43.3	51.0	49.3	48.0	45.3	38.4
22	32.9	47.9	36.1	49.3	50.6	50.6	50.4	55.4	53.4	47.9	53.0	46.2	49.5	53.9	52.3	46.0	43.2	46.5	38.5
23	25.5	27.5	30.4	43.4	40.6	43.5	43.2	42.9	41.9	39.7	39.4	41.9	41.9	43.9	42.4	48.9	40.4	37.1	34.4
24	30.0	35.3	39.1	50.4	51.2	52.4	54.4	53.4	46.1	48.8	45.5	44.2	51.3	44.6	46.4	39.1	37.4	32.0	30.6
25	25.6	29.2	31.0	34.5	37.7	41.9	43.1	45.4	47.0	41.9	48.6	41.0	40.8	46.4	46.3	38.6	37.9	35.0	34.6
26	33.4	41.3	44.1	48.9	50.4	48.9	49.7	55.7	53.3	50.6	53.3	51.9	51.9	51.4	48.7	46.4	47.7	41.4	35.6
27	38.1	35.9	37.1	48.4	50.1	49.1	47.8	54.0	50.0	46.5	52.1	42.8	47.7	43.2	45.0	45.6	44.9	40.6	32.7
28	35.3	39.7	40.6	39.9	42.6	43.9	37.6	37.4	38.4	—	26.3	30.4	—	—	—	—	—	—	—
29	32.5	33.4	38.9	41.4	39.8	44.9	46.0	51.6	47.4	49.2	50.4	52.2	50.4	43.0	40.4	40.3	44.2	44.2	35.4
30	25.3	—	29.1	46.0	40.7	43.4	35.8	—	—	37.4	41.8	44.3	50.4	52.1	39.9	37.4	43.2	41.6	34.7
Means.	33.56	38.87	40.69	45.79	46.80	47.74	47.12	49.82	49.09	47.40	47.56	47.07	47.84	46.73	46.86	44.35	42.11	40.06	36.28

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

SEPTEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	8.6	5.4	3.8	4.3	4.3	4.3	1.6	2.7	1.6	— 0.5	— 0.5	— 1.6	—
2	9.2	7.6	7.0	4.3	4.8	5.4	5.4	3.2	0.0	— 1.1	0.0	0.0	—
3	—	9.7	6.5	7.0	6.5	10.8	15.5	5.4	0.0	— 1.6	— 1.1	0.5	—
4	2.2	1.1	1.6	2.7	2.2	2.2	4.3	2.7	0.0	— 1.1	— 0.5	1.1	—
5	4.8	2.7	3.2	1.6	1.6	2.2	1.6	1.6	1.6	1.1	0.0	0.5	—
6	5.9	4.3	3.8	3.8	4.3	5.4	7.0	3.2	— 1.1	— 1.6	— 2.2	— 5.4	—
7	5.4	5.4	6.5	5.9	6.5	5.4	1.6	3.8	2.2	1.1	0.0	1.6	—
8	5.9	8.1	8.1	10.8	7.6	4.8	4.3	3.8	1.1	0.0	1.1	— 1.1	—
9	4.3	4.3	4.8	4.3	5.4	4.8	7.0	2.7	2.7	2.2	1.6	— 2.7	—
10	2.2	1.6	2.7	2.7	3.2	3.2	3.8	2.7	2.2	1.1	2.7	2.2	—
11	2.2	1.6	2.7	2.2	1.6	2.2	1.6	3.2	0.0	— 1.1	— 5.4	1.1	—
12	2.7	3.2	3.2	3.2	3.8	4.8	2.2	3.8	3.2	—	— 0.5	0.0	—
13	8.3	7.3	7.3	7.3	5.0	5.0	3.2	1.8	— 0.9	0.9	1.8	— 0.9	—
14	9.1	7.8	5.9	5.0	4.1	2.3	2.3	3.7	— 0.9	—	— 0.5	0.0	—
15	5.5	5.9	5.9	4.1	5.5	2.7	4.6	0.0	0.0	0.5	0.0	0.9	—
16	5.9	1.4	4.6	7.8	8.3	7.8	7.3	0.9	0.0	0.0	0.0	— 6.9	—
17	6.9	6.9	6.9	6.3	8.3	15.6	12.4	3.7	0.9	0.9	0.5	0.9	—
18	7.3	9.1	12.4	9.1	9.6	6.3	6.9	4.6	0.5	0.5	0.5	— 0.9	—
19	10.5	— 10.1	5.0	4.1	3.7	5.0	3.2	4.1	4.1	0.5	0.5	— 0.5	—
20	5.0	6.3	6.9	6.9	7.3	9.6	8.6	11.4	5.5	3.2	3.2	3.7	—
21	6.3	8.3	9.1	7.3	5.9	10.1	10.5	0.5	1.4	1.8	1.8	2.3	—
22	3.2	3.7	2.3	3.2	6.9	5.0	— 1.4	2.3	4.1	3.2	2.3	— 0.5	—
23	3.2	3.7	3.2	3.2	2.7	3.7	— 1.8	3.2	4.1	1.8	— 2.3	1.4	—
24	5.9	5.5	5.0	4.6	4.6	9.1	11.9	4.6	— 0.9	0.0	0.9	— 0.9	—
25	6.3	3.7	4.1	3.2	3.2	3.7	1.4	0.5	0.9	— 0.5	— 1.8	— 0.9	—
26	7.3	8.3	7.3	3.7	4.6	4.1	3.2	1.4	— 4.6	— 1.4	— 2.7	— 0.5	—
27	9.1	8.3	5.5	5.9	4.1	4.6	5.9	— 0.5	— 4.6	— 2.3	— 2.3	— 0.9	—
28	6.9	5.5	5.9	5.0	4.6	2.7	3.2	0.5	— 3.7	— 1.8	0.0	P N	—
29	14.6	10.5	11.0	10.5	12.8	17.4	17.9	—	—	—	—	—	—
30	—	—	—	—	—	—	—	P N	P N	P N	P N	P N	—
Hourly Means.	6.2	5.1	5.6	5.2	5.3	5.9	5.4	2.9	0.7	0.2	— 0.1	— 0.3	—

SEPTEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	0.5	0.0	0.0	— 2.2	1.1	2.2	3.2	7.0	9.7	7.0	8.1	10.2	3.4
2	0.0	— 0.5	— 0.5	— 0.5	1.1	2.2	3.8	4.3	8.1	P N	4.8	8.1	3.3
3	2.2	2.2	2.7	— 0.5	1.1	0.5	2.7	3.8	7.0	5.9	9.2	5.4	4.4
4	0.0	3.8	— 2.7	1.1	0.5	1.1	2.7	3.8	4.3	4.8	5.9	3.8	2.0
5	0.0	— 2.7	1.1	2.2	2.7	4.3	2.7	2.2	2.7	4.8	8.1	8.1	2.4
6	— 1.1	— 0.5	— 2.2	— 5.4	— 1.1	2.2	6.5	7.0	5.4	5.9	10.2	4.3	2.4
7	0.5	— 1.6	— 2.7	0.0	0.0	1.6	1.1	3.8	3.8	8.1	8.1	7.0	3.1
8	— 0.5	— 1.6	— 2.2	— 2.2	0.5	— 3.2	0.0	1.1	2.2	2.7	2.2	2.2	2.3
9	0.0	2.7	1.6	0.0	0.5	1.6	3.8	3.2	8.1	4.3	4.3	3.8	3.1
10	2.2	1.1	— 2.2	— 1.1	— 0.5	1.1	3.8	2.2	4.8	3.2	2.2	2.2	2.1
11	— 2.2	— 2.7	— 3.8	— 0.5	0.5	9.2	4.3	3.2	4.3	2.7	3.2	2.2	1.3
12	— 1.8	— 2.3	— 2.3	— 1.8	— 1.8	— 1.4	2.7	7.3	6.3	3.7	4.6	8.6	2.2
13	— 1.8	— 6.9	— 4.6	— 6.9	— 4.6	— 3.7	1.8	1.8	4.1	6.3	6.3	10.5	2.0
14	— 4.1	— 0.9	— 0.5	0.9	1.4	— 0.5	1.8	5.5	7.3	10.1	5.9	5.9	3.0
15	5.9	P N	P N	4.6	1.8	—	5.5	7.3	9.1	14.6	7.8	5.5	4.7
16	1.4	P N	P N	P N	8.3	8.6	0.9	9.6	3.7	3.2	4.6	6.3	4.0
17	3.7	— 4.6	P N	P N	5.9	2.7	4.6	3.7	5.5	7.8	9.1	9.1	5.0
18	0.5	0.5	— 0.5	— 1.4	0.0	4.6	5.0	4.1	6.9	8.6	7.3	7.8	4.6
19	0.5	2.3	6.3	P N	P N	P N	15.1	6.3	5.5	5.5	4.6	5.0	3.9
20	2.7	3.2	3.2	6.3	8.6	P N	P N	16.9	7.3	8.6	8.3	5.9	6.8
21	1.8	1.4	2.7	0.5	2.3	2.7	4.1	3.7	7.3	4.1	3.7	3.2	4.3
22	0.0	2.3	0.9	0.9	0.9	2.3	4.6	6.3	2.7	4.1	5.0	4.6	2.9
23	2.3	0.9	0.0	1.8	1.4	— 0.9	0.5	3.7	5.9	5.0	5.9	6.9	2.5
24	0.9	— 1.4	— 2.3	— 4.1	— 2.3	— 0.9	2.3	2.3	2.3	4.1	4.6	3.7	2.5
25	0.0	0.0	— 4.6	0.5	— 0.5	1.4	2.3	6.3	8.6	8.3	10.5	9.6	2.8
26	— 1.4	— 2.3	— 1.4	— 0.5	— 2.3	0.9	1.8	7.3	10.5	5.9	4.1	7.3	2.5
27	— 1.8	— 1.4	— 4.6	N	N	— 6.9	4.1	6.3	5.5	7.8	7.3	6.9	2.5
28	P N	P N	P N	P N	P N	6.9	6.9	11.9	25.2	20.6	21.0	17.4	7.7
29	—	—	—	—	—	—	—	—	—	—	—	—	13.5
30	P N	P N	P N	10.5	6.3	7.8	10.5	12.8	17.9	16.0	14.2	11.0	11.9
Hourly Means.	0.1	— 0.4	— 0.8	0.0	1.2	1.8	3.9	5.7	7.0	6.9	6.9	6.6	3.38

BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	10.87	10.42	10.55	10.51	10.82	11.07	11.87	12.37	12.71	12.18	11.96	11.36	—
	2	10.21	9.64	9.39	9.61	9.89	10.20	10.94	11.21	11.45	11.33	10.77	9.75	—
	3	9.27	8.69	8.43	8.45	8.56	9.16	9.56	10.14	10.18	9.69	9.18	8.38	—
	4	8.30	7.55	7.66	7.67	7.98	8.45	9.07	9.56	9.75	9.44	8.95	8.10	—
	5	8.40	8.15	7.91	8.10	8.11	8.47	9.04	9.40	9.66	9.54	9.05	8.64	—
	6	8.56	7.94	7.90	8.36	8.67	9.37	9.84	9.85	9.88	9.90	9.68	9.05	—
	7	9.14	8.80	8.63	8.84	8.84	9.55	9.92	10.40	10.59	10.19	9.66	9.12	—
	8	8.99	8.86	8.52	8.61	8.82	9.14	9.29	9.74	9.90	9.98	9.47	8.61	—
	9	8.71	8.31	8.35	8.26	8.37	9.01	9.50	9.81	9.95	10.01	9.59	8.74	—
	10	8.99	8.75	8.41	8.38	8.53	8.85	9.31	9.88	10.04	10.00	10.11	9.14	—
	11	8.21	8.16	8.16	8.66	8.82	9.12	9.64	9.85	9.95	9.67	9.05	8.45	—
	12	7.81	7.79	7.60	7.41	7.74	8.21	8.67	8.84	8.89	8.76	8.15	7.65	—
	13	7.73	7.35	7.33	7.40	7.41	7.78	8.48	9.09	9.25	9.33	8.73	8.14	—
	14	7.89	7.66	7.47	7.54	7.70	8.07	8.27	8.82	8.89	8.64	8.33	7.70	—
	15	9.07	8.78	8.29	8.34	8.58	8.84	9.16	9.35	9.70	9.48	8.80	8.27	—
	16	8.51	8.29	8.53	8.35	8.30	8.80	9.35	9.64	9.75	9.68	9.21	8.29	—
	17	8.90	8.58	8.49	8.80	9.13	9.65	10.15	10.78	10.73	10.61	10.00	8.94	—
	18	8.90	8.84	8.63	8.60	8.73	9.16	9.89	10.11	10.19	9.79	9.59	8.86	—
	19	8.80	8.61	8.51	8.53	8.94	9.20	9.80	10.26	10.25	9.91	9.66	9.22	—
	20	9.33	9.13	8.93	9.08	9.59	9.90	10.46	10.76	10.86	10.56	9.98	9.23	—
	21	9.31	9.00	8.80	8.80	9.31	9.41	10.26	10.75	10.80	10.64	10.24	9.29	—
	22	9.10	8.81	8.41	8.38	8.55	8.91	9.87	9.98	9.95	9.79	9.63	8.90	—
	23	8.84	8.59	8.32	8.65	8.97	9.43	9.83	10.02	9.95	9.83	9.40	8.72	—
	24	8.96	8.71	8.36	8.48	8.69	9.06	9.61	9.94	9.93	9.68	9.53	8.90	—
	25	9.63	9.13	8.73	9.25	9.27	9.79	10.35	10.94	11.03	10.77	10.27	9.50	—
	26	9.90	8.96	8.66	8.41	8.92	9.37	10.04	10.49	10.53	10.28	9.88	9.56	—
	27	9.71	8.94	8.96	9.11	9.48	10.09	10.92	11.14	10.92	10.87	10.30	9.65	—
	28	10.19	9.41	9.16	9.39	9.65	10.02	10.57	11.33	11.36	11.39	10.98	10.42	—
	29	9.80	9.56	9.30	9.36	9.90	10.22	10.87	11.41	11.28	11.16	10.48	9.61	—
	30	9.88	9.25	9.12	9.18	9.38	9.66	9.99	10.29	10.16	9.82	9.18	8.49	—
	31	8.35	7.88	7.58	7.86	8.11	8.59	9.10	9.29	9.29	8.92	8.40	7.74	—
Hourly Means.		9.04	8.66	8.49	8.59	8.83	9.24	9.79	10.18	10.25	10.06	9.62	8.92	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	10.54	9.81	9.25	8.83	9.15	9.68	10.27	10.99	11.34	11.73	11.43	10.70	10.85
	2	9.07	8.22	7.97	7.87	8.21	8.76	9.47	10.09	10.07	9.91	9.90	9.69	9.73
	3	7.37	7.40	8.07	7.52	7.56	7.71	8.02	8.54	9.05	9.56	9.22	8.59	8.68
	4	7.12	6.66	6.62	6.74	7.23	7.58	8.25	8.48	8.58	8.89	8.81	8.65	8.17
	5	7.95	7.34	6.67	6.74	7.01	7.65	8.03	8.20	8.79	9.01	9.08	8.95	8.33
	6	8.09	7.78	7.52	7.49	7.74	8.15	8.83	9.01	9.20	9.69	9.85	9.73	8.84
	7	7.92	7.51	7.63	7.44	8.15	8.80	9.25	9.99	10.67	10.39	10.23	9.71	9.22
	8	7.82	7.16	7.22	7.48	7.80	8.44	8.56	8.66	9.12	9.69	9.71	9.49	8.80
	9	8.17	7.72	7.01	6.84	7.31	7.91	8.35	9.15	9.63	9.69	9.34	9.14	8.70
	10	8.27	7.70	7.17	7.98	8.49	8.94	9.24	9.30	9.39	9.76	9.93	9.30	8.99
	11	7.92	7.46	6.73	6.47	6.92	7.51	7.79	8.23	8.83	9.16	8.84	8.38	8.42
	12	6.94	6.55	5.76	5.78	6.46	7.13	7.67	8.19	8.48	8.93	8.73	8.10	7.76
	13	7.84	6.89	6.66	6.70	7.15	7.56	7.94	8.26	8.84	9.09	8.94	8.51	8.02
	14	6.89	6.35	6.16	6.12	6.37	7.34	7.89	8.64	8.80	9.13	9.19	8.87	7.86
	15	7.41	7.00	6.47	6.42	6.57	7.23	7.72	8.52	8.92	9.29	9.14	8.93	8.35
	16	7.53	7.18	7.15	6.97	7.19	8.01	9.01	9.43	9.63	10.04	9.77	9.40	8.67
	17	7.86	7.26	6.97	6.88	7.43	7.83	8.48	8.91	9.49	9.65	9.53	9.25	8.93
	18	7.92	7.46	7.26	7.61	8.60	8.70	8.86	9.57	9.78	9.79	9.63	9.09	8.98
	19	8.01	7.33	7.01	7.85	8.25	9.08	9.48	9.79	10.01	10.34	10.25	9.81	9.12
	20	8.13	8.22	7.51	8.27	8.63	9.27	9.29	9.56	9.99	10.40	10.20	9.76	9.46
	21	8.28	7.84	7.25	6.82	7.55	8.56	8.79	9.30	9.70	10.08	9.95	9.48	9.18
	22	7.81	7.25	7.15	7.26	7.73	8.53	8.52	9.13	9.58	9.78	9.41	9.10	8.81
	23	8.11	7.36	6.85	6.86	7.22	7.92	8.71	9.07	9.55	9.84	9.67	9.39	8.80
	24	8.36	7.92	7.23	7.18	7.71	8.35	8.62	9.22	9.88	10.25	10.23	9.88	8.95
	25	8.88	8.66	8.43	8.22	8.89	9.43	10.23	10.65	11.09	11.39	11.00	10.48	9.83
	26	9.16	8.74	8.30	8.00	7.95	8.43	8.87	9.72	9.95	10.53	10.59	10.18	9.39
	27	9.50	8.75	8.42	8.38	8.53	8.92	9.36	10.05	10.58	10.84	10.74	10.63	9.78
	28	9.68	9.14	8.96	9.11	9.29	9.79	10.49	10.69	10.98	11.19	10.85	10.53	10.19
	29	8.73	7.85	7.56	7.32	7.74	8.68	9.34	10.14	10.27	10.61	10.56	10.33	9.67
	30	7.67	7.14	6.65	6.59	6.97	7.66	8.04	8.59	8.93	9.11	9.00	8.58	8.72
	31	6.92	6.22	5.80	5.72	5.80	6.52	7.19	7.75	8.24	8.32	8.36	8.01	7.75
Hourly Means.		8.12	7.61	7.27	7.27	7.66	8.26	8.73	9.22	9.59	9.87	9.74	9.38	8.93

STANDARD THERMOMETER.

OCTOBER.

Mean Batavia Time:	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	74.6	74.1	74.0	74.0	74.0	73.9	75.0	77.0	78.7	81.5	79.5	80.3	—
2	75.2	74.7	74.3	74.1	73.7	73.3	75.0	78.1	81.0	83.7	84.1	86.0	—
3	77.2	76.6	75.8	75.6	75.2	75.2	76.0	78.0	81.0	83.5	86.8	87.0	—
4	72.8	72.4	72.2	72.0	72.0	71.8	73.8	77.2	80.2	82.2	84.0	85.0	—
5	74.3	74.0	73.6	73.5	73.1	73.1	74.0	76.6	79.3	82.2	84.0	79.1	—
6	75.8	75.2	74.9	75.0	75.0	74.8	74.6	74.6	76.3	78.9	80.2	82.0	—
7	76.1	75.7	75.2	75.4	75.0	74.8	75.1	77.2	80.0	81.6	82.8	84.5	—
8	75.1	74.4	74.0	73.6	73.2	73.2	74.8	77.2	80.6	83.6	86.0	86.8	—
9	75.1	75.0	74.5	74.1	73.6	73.4	75.0	78.2	81.2	82.4	83.0	85.0	—
10	75.8	75.2	75.2	74.9	74.7	74.5	74.8	76.8	79.0	81.4	82.0	83.3	—
11	74.1	73.7	73.6	73.4	73.1	73.0	74.8	77.4	79.7	81.9	85.5	87.7	—
12	76.4	75.9	75.4	75.0	74.8	74.4	75.5	78.1	81.0	83.6	86.0	86.1	—
13	76.1	75.9	75.7	75.3	74.9	74.7	76.0	78.8	81.6	84.0	86.6	81.3	—
14	74.0	73.6	73.1	73.1	73.1	73.0	74.6	77.8	80.6	84.2	86.3	88.2	—
15	77.1	76.6	76.0	75.6	75.0	74.8	75.4	78.0	81.9	85.0	88.2	88.8	—
16	77.5	76.8	76.2	75.6	75.3	74.8	76.6	79.9	83.0	85.7	88.4	90.6	—
17	77.1	77.0	76.4	76.2	75.9	75.7	76.5	77.7	79.1	81.6	83.3	83.5	—
18	77.8	77.0	76.6	76.2	75.9	75.6	76.4	77.3	79.4	82.0	84.5	86.7	—
19	74.5	74.5	74.3	74.0	73.7	73.7	75.1	77.8	80.5	84.0	86.2	87.0	—
20	74.5	74.2	74.2	74.2	74.2	74.0	74.8	76.8	80.1	82.9	84.9	87.0	—
21	75.0	75.0	75.0	75.0	75.0	74.9	75.6	76.4	78.2	80.7	82.2	84.5	—
22	75.7	75.7	75.5	75.0	74.8	74.8	75.0	76.3	78.6	81.1	83.5	84.5	—
23	74.0	73.2	72.5	72.3	72.1	71.9	73.7	78.1	81.3	84.6	86.4	87.6	—
24	76.0	75.8	75.5	75.3	75.0	74.7	76.2	80.0	84.3	87.1	87.1	87.7	—
25	77.9	77.5	77.0	76.8	76.2	75.8	76.5	77.3	80.2	84.3	86.2	87.4	—
26	73.9	73.6	73.7	73.8	74.0	74.0	74.8	77.0	80.0	82.5	84.0	84.8	—
27	75.6	75.2	75.2	75.0	75.2	75.2	73.3	73.0	74.0	78.0	82.8	85.5	—
28	75.8	75.4	74.9	74.5	74.3	74.0	75.2	78.0	80.0	81.2	83.0	84.3	—
29	75.2	74.5	74.0	73.6	73.4	73.2	75.0	78.2	81.2	83.8	86.0	85.2	—
30	77.7	77.0	77.0	76.6	76.4	75.3	77.1	80.0	81.3	84.0	85.6	86.4	—
31	76.4	75.8	75.0	74.4	74.4	74.0	76.0	79.2	82.3	84.6	86.6	87.0	—
Hourly Means.	75.62	75.20	74.85	74.62	74.39	74.18	75.23	77.55	80.18	82.83	84.70	85.51	—

OCTOBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	82.0	84.0	83.2	82.9	82.3	81.1	79.5	78.0	77.5	76.8	76.2	75.8	78.16
2	86.5	86.2	85.9	84.8	84.2	83.2	81.3	80.5	79.7	79.0	77.8	77.2	79.98
3	84.6	79.5	77.7	74.2	73.7	74.1	74.0	73.9	73.7	73.9	73.5	73.3	77.25
4	86.3	85.9	80.8	80.6	81.6	78.8	77.6	77.0	76.6	76.0	75.2	75.0	77.79
5	76.8	75.7	78.0	80.0	80.0	79.7	78.7	77.6	77.2	76.9	76.7	76.3	77.10
6	83.2	82.9	82.7	81.9	81.0	80.0	79.2	78.2	77.5	77.2	76.9	76.7	78.11
7	84.9	86.3	81.5	80.4	80.4	79.0	78.0	77.6	77.5	77.1	76.2	75.3	78.65
8	87.7	88.3	84.7	82.5	81.2	79.3	77.7	77.5	76.9	76.3	76.0	75.8	79.02
9	84.0	79.0	84.0	84.2	83.6	82.0	80.0	79.2	78.2	77.2	76.6	76.2	78.95
10	83.2	85.5	86.2	80.0	78.0	76.8	75.2	74.5	74.3	74.0	74.7	74.5	77.69
11	84.4	81.3	82.6	84.0	83.5	82.4	81.3	79.6	78.6	78.4	77.6	77.0	79.11
12	86.5	86.0	88.0	88.0	86.0	83.4	81.2	80.0	79.0	78.2	77.2	76.4	80.50
13	79.0	82.0	83.5	83.5	83.0	81.7	78.8	76.9	76.1	75.5	74.9	74.4	78.76
14	89.3	88.4	86.0	85.4	84.1	82.9	81.3	79.7	78.7	78.1	77.5	77.5	80.02
15	88.4	86.7	90.5	89.6	88.2	85.0	83.5	81.3	80.0	79.2	78.4	78.2	81.73
16	88.4	86.8	86.2	86.7	87.0	84.6	82.2	81.5	80.0	79.0	78.0	77.6	81.60
17	84.4	86.0	84.0	84.0	82.8	81.9	81.2	80.2	80.2	79.1	79.1	78.6	80.06
18	87.1	85.4	85.2	84.6	76.4	76.0	75.3	75.1	75.3	75.3	75.1	74.9	78.80
19	88.9	87.7	87.0	81.0	79.0	76.7	75.5	74.5	74.8	75.0	74.6	74.6	78.53
20	87.5	76.6	79.0	77.8	75.3	75.9	75.8	75.6	75.2	75.0	75.0	75.0	77.31
21	85.0	81.6	82.2	83.8	83.5	80.1	77.6	77.0	76.8	76.5	76.1	75.9	78.48
22	86.4	86.4	84.6	84.6	82.6	80.0	78.5	77.5	76.3	75.5	75.1	74.4	78.85
23	87.5	86.0	85.8	84.7	84.2	83.3	79.0	78.2	77.2	76.8	76.8	76.2	79.31
24	86.4	88.0	88.3	89.3	88.0	85.0	82.0	80.6	79.5	78.9	78.1	77.9	81.53
25	84.0	80.0	80.0	77.2	77.2	76.9	76.1	75.9	75.5	75.2	75.0	74.3	78.35
26	85.2	82.0	83.2	83.7	83.3	82.1	81.0	79.4	78.8	77.6	76.5	76.1	78.96
27	81.7	82.5	80.3	82.5	81.7	80.6	79.0	78.6	78.0	77.0	76.4	75.9	78.01
28	82.0	81.4	82.0	82.5	80.5	79.2	78.1	77.6	77.0	76.9	76.7	76.0	78.35
29	86.4	85.9	85.1	84.3	83.5	82.8	81.6	80.2	79.0	78.5	78.4	78.0	79.88
30	86.5	86.3	86.0	84.9	83.5	81.0	80.2	80.0	79.0	78.4	77.6	77.0	80.62
31	88.3	87.2	86.1	84.9	84.3	82.8	82.6	81.2	79.4	78.5	77.5	77.0	80.65
Hourly Means.	85.24	84.11	83.88	83.18	82.05	80.59	79.13	78.21	77.53	77.00	76.50	76.10	79.10

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

OCTOBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	930	938	947	947	947	956	930	875	823	777	832	804	—
2	939	947	947	947	947	946	930	837	713	674	682	612	—
3	907	899	931	923	930	939	906	814	684	653	603	616	—
4	964	964	973	964	964	955	947	876	797	751	700	696	—
5	956	956	956	956	955	946	938	891	840	744	694	869	—
6	948	939	947	947	947	956	956	956	932	863	834	772	—
7	923	923	947	948	947	947	939	900	804	750	724	676	—
8	956	947	947	947	955	946	922	844	775	673	606	627	—
9	930	922	939	930	938	938	913	846	749	745	747	671	—
10	931	947	947	947	939	947	939	916	855	792	786	726	—
11	904	929	929	938	946	955	939	868	803	744	655	600	—
12	940	948	947	956	939	939	905	837	740	700	656	682	—
13	940	931	931	930	930	930	915	816	735	662	608	769	—
14	921	938	946	946	937	929	913	860	761	662	625	579	—
15	932	924	923	923	939	922	914	868	750	646	596	569	—
16	875	891	890	898	905	913	874	788	718	662	610	516	—
17	900	907	899	899	898	905	882	860	839	771	754	776	—
18	900	907	882	890	889	905	882	892	863	801	696	691	—
19	904	904	921	921	938	938	922	836	774	640	593	572	—
20	879	913	913	913	913	921	913	858	804	697	645	653	—
21	956	956	956	956	956	956	966	932	862	805	730	709	—
22	905	914	905	922	922	930	939	906	808	735	706	709	—
23	869	903	937	919	919	909	877	799	741	664	608	581	—
24	915	923	931	931	930	922	899	796	676	622	597	558	—
25	901	941	949	948	940	931	899	892	818	689	644	600	—
26	956	956	956	956	947	947	939	875	826	745	728	703	—
27	922	922	922	930	922	930	937	955	921	861	718	679	—
28	923	931	947	947	939	947	930	861	818	776	724	675	—
29	930	939	956	947	946	946	947	807	741	679	605	653	—
30	884	891	907	924	915	922	892	788	741	648	622	664	—
31	899	915	930	930	930	921	849	765	675	625	619	579	
Hourly Means.	921	928	934	935	934	935	918	859	787	718	676	664	—

OCTOBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	729	622	685	697	701	755	840	884	892	924	923	931	845
2	595	588	598	624	641	691	769	788	816	831	884	900	785
3	675	870	884	904	929	938	947	956	965	956	965	955	865
4	643	636	804	825	843	814	867	907	906	915	930	939	858
5	906	940	942	910	863	840	918	925	941	948	957	940	905
6	725	724	759	778	805	848	863	908	916	924	924	924	879
7	690	669	784	818	811	885	908	892	907	907	931	947	857
8	619	603	722	852	812	902	875	883	907	915	923	923	837
9	666	862	687	667	713	778	879	870	869	892	916	923	833
10	725	628	606	824	892	924	897	939	938	947	913	904	867
11	742	805	808	706	740	772	626	878	925	942	932	940	834
12	683	694	595	485	586	724	805	833	869	893	916	932	800
13	823	800	734	705	732	807	814	857	881	880	888	921	831
14	565	544	693	678	727	766	827	870	901	901	925	925	806
15	639	683	483	475	509	676	739	805	833	847	868	876	764
16	633	670	642	709	485	629	728	813	848	847	868	907	763
17	743	720	749	749	773	807	828	849	849	878	878	901	834
18	641	679	678	702	906	915	947	922	922	905	897	904	842
19	564	581	567	716	846	825	840	879	871	871	871	871	799
20	593	841	885	835	939	948	948	948	939	939	947	947	864
21	717	784	765	720	733	795	843	866	882	882	889	889	854
22	595	589	631	643	765	802	814	812	793	806	831	870	802
23	581	617	610	657	701	747	846	861	891	906	906	915	790
24	588	571	597	520	519	683	771	804	824	854	877	884	758
25	739	841	841	867	891	883	906	905	922	922	913	938	863
26	704	763	752	740	767	792	835	878	901	900	890	890	848
27	749	759	825	766	792	819	885	893	925	899	915	923	865
28	736	806	800	751	797	839	868	892	900	916	916	923	857
29	619	611	626	662	645	696	742	796	839	869	869	884	790
30	656	656	636	657	725	768	787	825	807	845	859	891	788
31	544	568	636	644	680	716	710	761	801	837	867	858	761
Hourly Means.	672	701	710	719	751	799	835	868	883	893	903	912	827

DIRECTION OF THE WIND.

OCTOBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	C	S	S	S	S	C	S	S	SW	S	ENE	S
2	C	C	C	C	N	N	N	SW	SW	SSW	NNW	NNE
3	C	C	C	W	C	C	W	WSW	SW	SW	S	SE
4	ESE	C	ESE	C	C	C	C	ESE	E	E	ESE	E
5	C	C	SSW	C	SSW	C	SSW	SSW	SW	SE	SE	SSW
6	C	E	C	C	E	E	E	ESE	ESE	ESE	SE	E
7	C	C	C	E	E	E	E	ESE	SSE	S	S	S
8	C	C	C	C	C	W	W	W	WSW	SSW	E	ENE
9	C	C	SSE	C	C	C	SSE	SSE	WSW	W	W	NW
10	C	C	C	C	C	C	NNE	NNE	NNE	E	E	E
11	SSE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	E	E
12	C	C	C	E	E	C	E	E	NE	E	SE	N
13	C	C	C	C	C	C	E	ESE	S	S	SE	NE
14	C	C	SW	SW	C	SW	SW	SW	ESE	E	ESE	E
15	C	NE	NE	NE	NE	C	C	NE	NE	E	SE	E
16	C	C	C	C	NE	NE	NE	SW	SW	SW	SE	SE
17	E	C	C	E	E	C	ENE	ENE	E	NNE	NW	N
18	C	NW	C	C	C	NW	NW	C	NW	NW	N	NE
19	C	C	C	C	C	C	SSW	SSW	SSW	SSW	SSW	W
20	SSW	SSW	SSW	SSW	SSW	S	S	S	S	SW	W	WSW
21	C	C	C	C	C	C	C	S	S	S	S	SSE
22	C	C	C	C	C	C	SW	SW	SW	SW	SE	NE
23	C	C	SSW	SSW	C	SSW	SSW	SSW	SSW	S	SE	NE
24	C	NNE	NNE	NNE	NNE	NNE	NNE	NNE	SE	ESE	SE	E
25	NE	NE	NE	C	NE	NE	NE	NE	E	SSW	SSW	SE
26	N	N	N	N	C	C	N	WSW	WSW	WSW	NE	NE
27	ENE	ENE	ENE	ENE	ENE	ENE	SE	SSW	SSW	SSE	SE	SE
28	C	C	C	C	C	C	NNE	NNW	WSW	W	W	NW
29	W	C	C	C	C	C	W	W	NE	NE	SE	N
30	NNW	NW	SW	SW	C	SW	SW	WSW	SW	E	NE	NE
31	SW	C	C	C	C	C	SW	SW	SW	E	NNE	N

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	S	NE	N	NNE	N	N	C	C	C	N	N	C
2	N	NNE	NNE	N	N	N	N	C	N	W	W	W
3	NW	WNW	SSW	E	ESE	ESE	C	ESE	C	C	C	C
4	E	SE	N	NW	NNW	SSW	SSW	SSW	C	C	C	C
5	E	ENE	ENE	ENE	E	E	E	E	E	C	E	E
6	E	E	ENE	ENE	E	E	E	E	C	C	C	C
7	SSE	NNW	W	W	W	W	W	C	C	C	W	W
8	N	N	NE	ENE	ENE	ENE	SSE	C	C	SSE	C	C
9	NNE	S	NNE	NNE	NNE	NNE	NNE	NNE	C	C	C	C
10	N	N	NNW	SE	SSW	SSW	E	E	E	E	SE	SE
11	E	ENE	ENE	E	E	E	E	E	E	C	C	C
12	N	ESE	E	E	E	E	E	C	C	C	C	C
13	ENE	NNW	N	N	NNW	NNW	SW	SW	SW	SW	C	C
14	E	E	NE	NE	NE	NE	NE	NE	C	NE	NE	NE
15	NNE	N	E	E	ENE	NE	NE	C	C	C	C	C
16	NE	N	N	N	E	E	C	C	C	C	E	E
17	N	N	NNE	N	N	N	N	NW	NW	NW	NW	NW
18	NNE	NNE	N	N	S	SSW	SSW	SSW	SSW	SSW	C	C
19	N	NNE	N	SE	SE	SSW	SSW	SSW	SSW	SSW	SSW	C
20	NW	NE	N	SW	S	S	S	S	S	S	S	C
21	NW	ENE	NE	NNE	NE	W	SW	SW	SW	SW	SW	SW
22	N	N	N	N	SW	SSW	SSW	SSW	SSW	SSW	SSW	C
23	N	NNE	N	NNE	NE	NE	NNE	NNE	NNE	NNE	NNE	C
24	ENE	NNE	NE	E	ENE	NE	C	C	C	C	C	C
25	NE	N	NE	NNE	NNE	NNE	NNE	NNE	C	C	C	N
26	N	SE	NNE	NE	NE	ENE	C	ENE	ENE	ENE	ENE	C
27	E	E	NE	NE	NNE	NNE	C	NNE	NNE	NNE	C	NNE
28	ENE	NE	NNE	NW	W	W	C	W	W	W	W	W
29	N	NNE	N	N	N	N	NNW	NNW	C	NNW	NNW	C
30	N	NNE	N	N	N	W	W	W	SW	C	SW	SW
31	NE	NNE	NNE	N	N	N	N	WNW	W	W	W	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	0.0	0.8	0.8	2.4	0.8	0.0	0.8	3.2	3.2	6.4	9.7	5.6	—
	2	0.0	0.0	0.0	0.0	0.8	2.4	4.8	3.2	3.2	3.2	7.2	9.7	—
	3	0.0	0.0	0.0	0.8	0.0	0.0	3.2	2.4	2.4	3.2	4.8	5.6	—
	4	0.8	0.0	0.8	0.0	0.0	0.0	0.0	4.0	4.8	8.9	9.7	11.3	—
	5	0.0	0.0	0.8	0.0	0.8	0.0	0.8	1.6	3.2	5.6	7.2	8.0	—
	6	0.0	0.8	0.0	0.0	0.8	2.4	4.0	7.2	6.4	7.2	8.0	10.5	—
	7	0.0	0.0	0.0	0.8	3.2	0.8	1.6	2.4	3.2	3.2	3.2	3.2	—
	8	0.0	0.0	0.0	0.0	0.0	0.8	3.2	4.0	3.2	4.8	5.6	6.4	—
	9	0.0	0.0	0.8	0.0	0.0	0.0	0.8	1.6	1.6	1.6	4.0	6.4	—
	10	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.0	7.2	5.6	4.8	—
	11	1.6	1.6	3.2	0.8	1.6	0.8	2.4	2.4	1.6	4.8	10.5	12.1	—
	12	0.0	0.0	0.0	1.6	0.8	0.0	1.6	2.4	4.0	5.6	8.0	8.0	—
	13	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	4.0	5.6	8.0	9.7	—
	14	0.0	0.0	1.6	0.8	0.0	0.8	0.8	3.2	8.0	14.5	16.1	15.3	—
	15	0.0	2.4	4.0	2.4	3.2	0.0	0.0	1.6	7.2	11.3	12.1	12.1	—
	16	0.0	0.0	0.0	0.0	0.8	1.6	3.2	4.0	3.2	4.8	8.0	12.9	—
	17	0.8	0.0	0.0	0.8	1.6	0.0	0.8	0.8	1.6	3.2	4.0	8.9	—
	18	0.0	0.8	0.0	0.0	0.0	2.4	0.8	0.0	1.6	2.4	4.8	9.7	—
	19	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2	4.0	4.0	—
	20	0.8	0.8	1.6	0.8	0.8	1.6	0.8	2.4	1.6	4.0	4.8	6.4	—
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	2.4	3.2	—
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	0.8	3.2	4.8	5.6	—
	23	0.0	0.0	0.8	0.8	0.0	1.6	1.6	2.4	3.2	4.0	6.4	8.0	—
	24	0.0	1.6	0.8	0.8	0.8	0.8	2.4	4.0	8.9	13.7	13.7	11.3	—
	25	0.8	0.8	0.8	0.0	1.6	3.2	3.2	0.8	5.6	4.0	6.4	8.0	—
	26	1.6	0.8	0.8	0.8	0.0	0.0	0.8	3.2	2.4	4.0	7.2	12.1	—
	27	0.8	1.6	3.2	0.8	0.8	3.2	11.3	7.2	5.6	5.6	10.5	15.3	—
	28	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8	3.2	3.2	6.4	—
	29	0.8	0.0	0.0	0.0	0.0	0.0	2.4	3.2	4.8	6.4	6.4	7.2	—
	30	1.6	4.8	1.6	0.8	0.0	0.8	1.6	4.0	4.0	5.6	4.8	7.2	—
	31	0.8	0.0	0.0	0.0	0.0	0.0	4.8	1.6	3.2	6.4	4.8	8.0	—
Hourly Means.		0.34	0.54	0.70	0.49	0.59	0.75	2.07	2.74	3.69	5.46	6.96	8.48	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	4.0	8.0	9.7	4.8	3.2	1.6	0.0	0.0	0.0	0.8	0.8	0.0	2.78
	2	12.1	13.7	11.3	8.9	3.2	1.6	2.4	0.0	0.8	1.6	1.6	0.8	3.85
	3	10.5	4.0	11.3	4.8	1.6	0.8	0.0	0.8	0.0	0.0	0.0	0.0	2.34
	4	12.9	9.7	8.0	3.2	4.0	3.2	1.6	1.6	0.0	0.0	0.0	0.0	3.52
	5	5.6	1.6	1.6	3.2	4.8	2.4	0.8	0.8	1.6	0.0	0.8	0.8	2.17
	6	14.5	14.5	16.9	12.9	9.7	1.6	1.6	1.6	0.0	0.0	0.0	0.0	5.03
	7	3.2	10.5	8.9	5.6	2.4	3.2	0.8	0.0	0.0	0.0	0.8	0.8	2.41
	8	9.7	10.5	9.7	4.8	2.4	5.6	3.2	0.0	0.0	0.8	0.0	0.0	3.11
	9	11.3	2.4	8.0	8.9	4.0	0.8	1.6	1.6	0.0	0.0	0.0	0.0	2.31
	10	6.4	7.2	8.0	6.4	4.8	8.0	4.0	1.6	2.4	2.4	11.3	8.0	4.04
	11	11.3	4.8	4.0	12.1	8.0	5.6	1.6	0.8	0.8	0.0	0.0	0.0	3.85
	12	11.3	10.5	12.1	14.5	5.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	3.68
	13	3.2	6.4	8.0	6.4	2.4	3.2	5.6	3.2	1.6	0.8	0.0	0.0	2.94
	14	14.5	14.5	12.9	11.3	8.0	4.0	1.6	0.8	0.0	0.8	1.6	1.6	5.53
	15	11.3	7.2	16.9	12.1	12.9	8.0	3.2	0.0	0.0	0.0	0.0	0.0	5.33
	16	9.7	9.7	8.0	8.9	6.4	1.6	0.0	0.0	0.0	0.0	0.8	1.6	3.55
	17	4.8	8.0	8.0	8.0	5.6	2.4	1.6	1.6	0.8	0.8	0.8	0.8	2.74
	18	12.9	12.1	10.5	11.3	6.4	4.8	8.0	5.6	4.8	1.6	0.0	0.0	4.19
	19	9.7	15.3	13.7	6.4	5.6	6.4	3.2	2.4	1.6	0.8	0.8	0.0	3.41
	20	7.2	11.3	0.8	11.3	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.0	2.78
	21	4.8	8.9	4.8	8.0	4.0	5.6	6.4	3.2	1.6	0.8	3.2	0.8	2.60
	22	8.0	11.3	8.0	5.6	4.0	8.9	7.2	8.0	7.2	4.8	2.4	0.0	3.84
	23	11.3	13.7	12.9	12.1	8.0	4.8	4.0	2.4	1.6	1.6	1.6	0.0	4.28
	24	9.7	9.7	12.1	12.9	9.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	4.87
	25	11.3	4.8	8.0	5.6	2.4	1.6	1.6	1.6	0.0	0.0	0.0	0.8	3.04
	26	11.3	5.6	11.3	12.9	10.5	4.0	0.0	0.8	0.8	1.6	1.6	0.0	3.92
	27	14.5	10.5	4.8	7.2	4.8	0.8	0.0	1.6	0.8	0.8	0.0	0.8	4.69
	28	12.1	8.0	5.6	5.6	3.2	0.8	0.0	0.8	0.8	0.8	1.6	0.8	2.60
	29	8.0	9.7	9.7	8.9	7.2	3.2	1.6	1.6	0.0	0.8	0.8	0.0	3.45
	30	10.5	11.3	11.3	9.7	8.0	4.0	1.6	4.0	0.8	0.0	0.8	1.6	4.18
	31	11.3	11.3	11.3	11.3	6.4	2.4	2.4	3.2	0.8	1.6	0.8	0.0	3.85
Hourly Means.		9.64	9.25	9.29	8.57	5.51	3.49	2.19	1.65	0.98	0.77	1.06	0.62	3.58

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	9	7	9	7	10	7	7	7	9	9	10	9	—
	2	1	1	0	0	1	2	1	0	0	6	10	6	—
	3	4	1	0	1	4	3	3	9	8	7	6	8	—
	4	2	2	3	4	4	4	3	3	4	6	6	8	—
	5	2	1	1	2	4	3	2	3	5	9	10	10	—
	6	10	10	10	10	10	10	10	10	10	9	10	10	—
	7	10	10	10	10	9	10	8	6	4	10	8	8	—
	8	1	1	1	2	1	7	4	3	2	4	4	7	—
	9	0	2	1	2	2	0	0	0	4	7	7	6	—
	10	3	3	2	1	1	2	9	10	10	10	10	10	—
	11	10	10	10	10	10	6	6	7	8	5	6	7	—
	12	4	4	3	6	6	7	6	6	6	6	6	10	—
	13	6	7	7	7	9	9	6	7	6	7	7	10	—
	14	3	3	4	2	5	6	8	9	9	9	9	10	—
	15	6	7	3	4	2	4	9	6	5	5	7	8	—
	16	3	3	3	4	5	2	3	1	1	1	2	3	—
	17	8	10	10	10	10	10	7	7	6	10	7	10	—
	18	9	10	10	10	9	10	10	10	10	10	9	10	—
	19	10	10	9	8	8	9	9	9	8	8	7	6	—
	20	3	9	9	9	10	10	10	9	8	8	8	8	—
	21	10	10	10	10	10	10	10	10	10	10	10	10	—
	22	10	10	10	9	10	10	10	10	7	7	7	9	—
	23	1	0	0	0	2	3	4	3	4	4	3	4	—
	24	4	8	8	9	4	4	3	2	3	5	7	10	—
	25	4	10	10	4	10	9	10	10	9	9	9	8	—
	26	10	9	9	9	10	10	9	8	8	9	9	8	—
	27	7	10	10	10	10	10	10	10	9	9	9	6	—
	28	5	2	0	1	1	9	10	9	9	9	10	10	—
	29	3	4	4	4	5	5	7	4	4	5	6	7	—
	30	9	8	6	6	2	3	3	4	3	4	6	4	—
	31	5	3	3	4	6	2	3	1	1	2	4	3	—
Hourly Means.		5.5	6.0	5.6	5.6	6.1	6.3	6.5	6.2	6.1	7.1	7.4	7.8	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	10	10	8	6	7	5	4	5	5	3	1	0	6.8
	2	2	1	1	2	8	9	8	9	6	8	7	1	3.8
	3	10	10	10	10	10	10	4	7	4	2	2	1	5.6
	4	7	10	10	10	10	10	10	7	7	8	8	8	6.4
	5	10	9	9	9	9	10	9	10	10	10	10	10	7.0
	6	9	10	10	10	10	10	9	7	10	10	10	10	9.8
	7	6	7	7	7	8	10	9	9	9	2	1	1	7.5
	8	6	6	10	10	10	6	2	2	8	7	3	0	4.5
	9	10	5	3	3	4	4	6	5	4	6	5	5	3.8
	10	9	7	10	10	10	10	10	10	10	10	10	10	7.8
	11	10	10	10	10	10	10	6	4	7	4	2	2	7.5
	12	6	6	4	4	5	6	5	4	3	3	3	5	5.2
	13	10	6	4	2	3	9	3	4	4	3	4	4	6.0
	14	9	9	8	8	9	10	3	2	2	2	8	6	6.4
	15	8	7	4	4	4	3	3	3	2	2	4	2	4.7
	16	2	8	8	2	5	4	3	3	2	1	3	10	3.4
	17	8	7	7	4	3	3	8	5	3	7	6	5	7.1
	18	7	10	7	10	10	10	9	10	10	10	10	4	9.3
	19	5	3	4	10	10	10	7	9	10	8	10	9	8.2
	20	7	10	10	10	10	10	10	9	10	10	10	10	9.0
	21	10	10	5	6	9	9	6	3	2	7	8	9	8.5
	22	5	4	8	6	8	9	8	9	10	8	5	2	8.0
	23	6	5	4	6	10	10	4	2	1	2	2	4	3.5
	24	9	5	3	1	2	2	2	1	3	3	1	2	4.2
	25	10	10	10	10	10	10	10	10	10	10	9	7	9.1
	26	8	9	9	10	10	10	9	8	6	9	10	7	8.9
	27	9	6	7	3	4	4	5	5	9	3	7	8	7.5
	28	10	8	10	10	10	10	7	9	6	9	10	4	7.4
	29	10	10	8	5	8	10	10	10	10	10	10	10	7.0
	30	3	3	3	4	7	10	10	10	10	10	6	3	5.7
	31	2	2	1	1	0	8	2	2	1	1	1	0	2.4
Hourly Means.		7.5	7.2	6.8	6.5	7.5	8.1	6.5	6.2	6.3	6.1	6.0	5.1	6.50

DURATION OF SUNSHINE.

OCTOBER.

Mean Batavia Time.	8—8½ A. M.	8½—9	9—9½	9½—10	10—10½	10½—11	11—11½	11½—12	12—12½	12½—1 P. M.	1—1½	1½—2	2—2½	2½—3	3—3½	3½—4	Daily and Monthly Means.
1	2	2	4	5	1	0	0	2	0	0	0	3	1	0	3	2	1.6
2	10	10	10	10	4	7	3	4	10	10	10	10	10	10	9	10	8.6
3	1	4	0	4	3	6	8	7	0	0	0	0	0	0	0	0	2.1
4	9	7	7	3	4	3	3	2	4	5	5	3	2	0	0	0	3.6
5	6	8	9	4	3	4	2	0	0	0	0	0	0	0	0	0	2.3
6	0	0	1	1	1	0	0	0	1	3	3	1	3	1	4	0	1.2
7	4	8	7	4	3	2	1	1	2	2	10	8	1	0	0	0	3.3
8	10	10	10	8	7	9	8	3	6	10	10	10	5	0	0	0	6.6
9	10	10	1	1	0	1	3	3	1	1	0	2	10	10	10	10	4.6
10	0	1	1	1	1	0	0	0	1	0	0	1	4	8	6	1	1.6
11	5	2	1	3	9	8	7	6	5	2	0	0	0	0	1	1	3.1
12	10	10	10	10	10	10	7	5	3	10	10	5	6	9	7	7	8.1
13	7	7	7	7	7	6	6	1	0	0	0	3	8	8	9	9	5.3
14	6	2	9	9	9	4	6	7	8	9	4	4	4	4	5	2	5.8
15	6	9	10	10	9	8	5	6	6	4	5	0	5	7	9	9	6.8
16	10	10	10	10	10	10	10	9	7	8	6	1	1	2	2	2	6.8
17	0	0	2	1	1	0	3	1	1	4	4	6	7	0	0	5	2.2
18	0	0	0	2	4	1	5	4	8	9	8	7	6	8	1	0	3.9
19	0	6	5	8	9	8	8	4	6	8	10	10	10	10	7	0	6.8
20	3	6	6	6	7	6	4	6	7	6	3	0	0	0	0	0	3.8
21	0	0	0	0	0	0	0	0	1	0	0	2	0	8	8	7	1.6
22	0	0	2	3	1	6	6	4	7	8	8	8	9	1	4	4	4.4
23	10	9	9	9	10	10	10	8	8	8	9	8	9	9	8	5	8.7
24	10	10	10	10	8	3	0	0	0	0	0	5	3	3	5	4	4.4
25	0	0	4	4	4	3	6	3	6	1	0	0	0	0	0	0	1.9
26	3	4	8	5	6	5	6	7	7	8	4	0	0	0	0	0	3.9
27	0	0	2	3	5	8	7	10	2	3	1	3	7	0	0	4	3.4
28	8	7	1	1	5	6	6	7	8	1	0	0	3	0	0	2	3.4
29	9	9	9	9	8	9	8	3	6	8	8	7	5	6	2	4	6.9
30	7	4	6	9	10	6	6	4	9	4	9	10	10	10	10	3	7.3
31	10	10	10	10	10	8	1	5	10	10	10	8	9	9	9	9	8.6
Means.	5.0	5.3	5.5	5.5	5.5	5.1	4.7	3.9	4.5	4.6	4.4	4.0	4.5	4.0	3.8	3.2	4.59

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

OCTOBER.

Mean Batavia Time.	7h30 A. M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	31.9	37.4	34.8	42.9	51.2	42.0	36.9	30.9	31.8	40.6	43.1	44.4	43.6	46.9	43.7	40.6	47.4	39.3	35.5
2	41.5	45.4	47.2	48.4	49.8	48.4	43.1	39.8	48.9	53.4	52.3	52.4	51.6	51.3	50.9	50.5	45.6	42.4	37.9
3	35.1	36.9	38.0	41.1	43.6	52.1	48.9	54.0	52.0	47.3	41.6	34.3	—	—	—	26.9	—	—	
4	36.7	44.6	44.6	46.0	47.7	45.4	45.2	47.2	49.0	47.9	48.1	50.4	46.4	39.6	38.1	30.0	29.8	29.7	32.1
5	39.4	35.8	39.8	48.3	49.6	40.8	42.7	43.7	39.2	—	—	—	23.7	27.6	29.7	32.4	32.2	32.0	31.8
6	—	—	—	34.5	36.2	40.3	39.4	38.9	42.8	39.2	40.6	46.3	42.9	39.0	44.4	38.9	38.4	32.8	31.3
7	33.0	40.9	37.6	48.4	48.4	45.4	43.0	48.8	43.5	45.5	47.4	48.4	54.4	46.4	—	31.7	29.4	30.9	29.1
8	41.6	45.6	47.4	48.4	49.3	46.3	50.6	53.6	51.4	48.4	50.7	52.4	53.1	54.9	41.0	36.9	29.4	28.4	27.4
9	40.6	45.4	47.1	45.6	39.5	36.9	33.5	41.6	43.8	45.1	38.4	35.8	—	30.6	47.1	47.9	41.9	38.5	36.9
10	28.6	31.5	32.4	36.4	38.6	41.6	39.1	34.0	36.4	46.3	41.9	39.6	45.1	51.4	50.9	44.9	33.9	—	—
11	39.9	39.6	37.6	41.6	41.5	48.8	51.4	51.9	50.8	51.7	51.1	—	28.2	33.4	35.3	36.3	36.4	36.0	33.5
12	37.9	41.9	43.6	46.4	47.9	49.5	49.8	51.0	54.0	44.4	42.9	51.4	48.9	42.4	46.9	49.4	43.4	39.3	34.8
13	39.0	42.3	43.9	46.1	47.4	47.6	51.7	52.8	55.9	—	—	31.4	33.9	44.9	47.4	45.4	44.9	39.5	37.4
14	31.0	39.2	41.1	41.4	45.1	46.8	48.1	47.0	50.4	48.9	49.6	49.5	46.2	43.4	41.9	39.0	37.9	34.4	32.2
15	30.8	39.7	42.3	49.5	50.5	53.6	51.8	53.3	48.9	51.7	48.0	54.4	47.6	44.7	46.6	49.9	47.0	37.7	35.2
16	39.3	44.3	46.7	48.1	50.2	51.9	51.7	54.8	54.1	51.3	47.7	52.3	44.0	41.9	39.4	36.3	37.7	37.0	33.8
17	28.0	30.8	31.6	36.4	46.3	39.8	40.5	47.9	49.3	37.9	40.5	43.2	49.6	49.9	50.4	35.9	33.4	36.6	33.4
18	26.7	28.5	31.1	34.7	38.0	50.0	49.3	52.2	45.1	55.2	49.6	55.8	55.4	43.4	46.4	47.8	36.9	36.9	30.3
19	31.9	34.9	37.3	44.2	48.2	48.9	51.5	51.5	50.6	52.8	44.7	54.9	54.1	52.9	51.9	51.9	41.8	27.8	24.4
20	28.4	33.9	40.3	46.0	47.6	48.7	49.7	51.2	51.3	51.7	40.4	48.1	—	—	—	28.9	28.2	—	—
21	26.8	29.3	32.8	39.4	43.4	41.5	42.1	46.3	51.5	49.9	50.6	41.9	42.3	—	32.4	48.4	51.4	36.5	34.9
22	27.0	31.4	34.4	46.3	44.3	42.3	41.6	50.6	48.5	47.4	47.3	51.0	52.6	53.4	54.4	38.9	45.4	35.1	31.8
23	39.2	45.9	45.7	45.5	48.4	52.3	51.8	51.4	51.1	52.9	51.4	52.9	50.1	52.4	50.8	49.9	44.4	34.9	31.3
24	39.2	46.4	47.6	49.6	51.2	53.4	54.4	41.6	41.9	40.9	39.1	37.5	39.3	50.4	43.5	44.4	46.9	37.0	33.9
25	26.7	27.8	30.7	43.1	47.1	52.7	46.8	51.9	55.6	52.0	48.3	—	28.2	27.4	—	—	—	24.8	25.9
26	30.9	38.8	40.3	45.4	48.6	49.9	45.1	49.8	45.6	46.4	53.6	50.7	36.6	31.9	33.8	36.4	36.4	35.0	33.4
27	—	—	—	30.4	38.4	42.9	41.4	52.3	—	54.4	37.8	39.9	40.9	41.9	52.0	31.4	30.9	32.1	29.8
28	33.9	42.9	43.5	40.4	41.1	45.9	44.6	46.7	44.9	49.2	55.6	37.9	33.6	39.9	36.3	34.4	34.5	32.4	31.4
29	37.8	45.4	46.2	47.5	49.8	50.6	51.6	52.0	49.1	44.2	50.3	52.9	49.9	48.9	45.9	46.2	40.4	36.0	33.4
30	43.2	47.1	43.6	45.5	52.0	53.1	53.5	52.5	45.6	54.4	52.3	48.9	52.4	51.0	51.0	49.4	46.2	33.9	31.8
31	42.0	46.4	48.0	50.3	51.0	52.8	53.8	46.9	36.0	52.9	55.0	54.6	53.5	52.1	51.4	50.0	40.4	33.4	31.1
Means.	34.76	39.31	40.59	43.80	46.19	47.17	46.60	48.00	47.30	48.41	46.89	46.90	44.58	44.07	44.57	41.03	39.05	34.65	32.35

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	10.1	9.6	10.5	8.3	7.8	16.0	16.5	7.8	3.7	3.2	N	3.7	—
2	12.8	16.0	15.6	14.2	8.6	11.4	5.5	— 0.9	— 1.4	1.4	1.4	0.5	—
3	9.6	9.1	11.9	5.9	5.9	9.6	7.3	1.4	— 2.3	— 1.4	0.0	0.0	—
4	18.3	14.2	13.3	12.4	14.6	11.4	18.3	10.5	5.0	2.7	1.4	2.3	—
5	13.3	11.4	14.2	9.6	8.6	10.5	9.1	5.5	5.0	0.0	0.0	P N	—
6	11.9	20.6	— 0.9	10.5	18.7	9.1	— 4.6	2.7	4.1	2.7	3.2	0.5	—
7	7.3	9.6	12.8	13.7	5.0	6.9	8.3	6.9	1.4	3.2	2.7	2.7	—
8	—	—	—	—	—	—	—	3.7	3.2	1.8	2.3	2.7	—
9	6.9	5.9	5.9	5.0	4.1	6.9	4.6	2.7	0.0	— 0.5	0.5	0.9	—
10	5.9	6.9	5.0	4.1	4.1	6.3	4.1	—	—	—	—	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	—	—	—	—	5.0	1.4	2.7	2.3	3.7	—
13	14.2	15.1	16.9	12.4	10.1	12.4	9.1	4.6	0.0	0.0	0.9	P N	—
14	15.1	11.9	6.9	5.5	5.0	7.8	10.5	3.7	3.2	0.9	1.4	1.8	—
15	7.3	5.9	5.5	5.5	5.9	4.1	9.6	1.8	1.4	— 0.9	1.8	1.4	—
16	8.3	7.8	7.8	5.9	4.6	6.9	4.1	1.4	0.5	— 0.9	1.4	0.9	—
17	5.5	6.3	5.0	4.1	4.1	2.7	5.9	6.3	3.7	1.8	0.0	0.0	—
18	3.7	3.2	3.2	2.3	2.3	4.6	4.1	3.7	2.7	0.5	0.5	1.4	—
19	5.9	5.0	5.9	5.5	5.9	8.6	5.9	3.7	— 0.5	0.9	2.7	2.3	—
20	7.8	7.3	7.3	5.5	5.0	5.5	8.6	4.6	2.7	0.9	1.8	1.4	—
21	12.4	13.3	11.4	7.3	6.9	11.4	15.6	10.5	6.3	1.8	— 1.8	1.4	—
22	5.9	8.6	7.8	7.8	9.1	10.1	11.0	9.6	7.3	4.6	2.3	3.7	—
23	9.1	16.5	18.3	10.5	7.8	7.8	5.5	4.1	2.3	1.8	1.8	0.5	—
24	5.0	8.3	6.9	8.6	5.9	12.8	9.1	4.6	1.4	2.3	3.2	2.7	—
25	11.9	P N	P N	13.7	10.5	8.3	— 9.1	5.9	3.7	0.0	1.8	7.8	—
26	8.6	10.1	10.5	9.6	7.8	10.1	8.3	7.8	4.1	1.4	3.2	2.3	—
27	10.1	8.6	8.6	2.7	29.8	13.7	P N	P N	P N	5.5	1.4	3.2	—
28	12.8	10.5	10.5	6.9	5.9	9.1	8.3	4.1	3.7	1.8	1.8	P N	—
29	6.9	8.6	9.6	8.6	8.6	13.7	16.0	2.3	0.9	0.9	1.4	0.9	—
30	2.7	2.7	4.6	3.7	4.6	5.9	5.5	2.7	1.8	1.4	1.4	0.9	—
31	4.6	5.5	13.3	8.3	5.5	8.6	7.3	2.3	1.8	1.4	0.5	— 0.5	—
Hourly Means.	9.1	9.6	9.2	7.8	8.0	9.0	7.6	4.6	2.4	1.4	1.5	1.9	—

OCTOBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	1.8	2.3	3.7	4.6	5.0	7.8	9.6	10.5	13.7	1.4	4.6	11.0	7.5
2	1.4	0.9	2.3	0.9	3.2	5.5	5.9	11.0	13.7	18.3	10.5	6.9	6.9
3	3.2	P N	P N	P N	P N	3.7	8.6	15.1	15.1	16.0	16.5	22.0	7.9
4	3.7	3.2	P N	P N	N	— 3.7	8.6	6.3	8.3	15.1	14.2	17.4	9.4
5	P N	P N	P N	5.9	5.5	15.6	14.6	9.1	5.9	7.3	10.5	12.4	8.7
6	0.9	2.7	6.9	6.9	—	8.3	13.7	9.1	12.4	12.4	10.1	10.5	7.5
7	2.7	2.7	P N	P N	P N	P N	6.9	—	—	—	—	—	6.2
8	3.2	N	N	P N	7.3	7.3	8.3	9.6	9.6	9.6	6.9	7.3	5.9
9	N	N	1.4	2.3	3.7	4.1	5.0	11.0	9.1	9.6	11.0	5.0	4.8
10	—	—	—	—	—	—	—	—	—	—	—	—	5.2
11	—	—	—	—	—	—	—	—	—	—	—	—	—
12	5.9	0.5	7.8	4.1	4.6	8.6	10.1	12.4	12.8	11.9	12.8	14.2	7.1
13	P N	0.9	9.1	2.3	7.8	7.3	10.5	5.9	7.3	8.3	9.6	11.0	8.0
14	2.3	1.4	2.7	1.8	3.7	4.6	5.9	9.6	13.7	11.9	11.0	7.8	6.3
15	2.3	2.3	2.3	5.5	3.2	4.6	4.6	3.7	10.5	7.3	7.8	6.9	4.6
16	0.9	0.5	— 0.5	0.5	P N	1.8	4.1	6.3	8.6	8.6	9.6	4.6	4.1
17	0.0	0.5	4.1	— 0.5	1.8	2.7	3.2	2.7	5.5	1.8	3.7	3.2	3.1
18	— 0.9	P N	P N	P N	P N	P N	0.0	12.4	9.1	7.8	6.9	9.1	4.0
19	1.8	1.8	— 11.4	P	P	P	2.3	6.9	9.1	8.6	7.3	6.9	4.1
20	0.9	P N	P N	P N	P N	P N	5.0	12.4	13.3	11.9	11.0	15.1	6.7
21	1.4	N	N	P N	16.0	10.1	2.3	3.2	4.6	6.3	5.9	5.5	7.2
22	2.3	2.7	3.2	10.1	13.7	— 9.1	11.9	3.7	5.5	5.5	5.0	12.4	6.4
23	0.5	0.5	1.4	— 0.9	P N	4.1	4.6	6.3	9.1	7.8	9.6	6.9	5.9
24	3.7	— 2.3	0.5	4.1	2.7	3.7	7.8	11.4	11.9	12.4	17.9	13.7	6.6
25	P N	P N	P N	P N	P N	2.3	11.0	6.9	6.9	7.8	9.1	9.1	6.3
26	N	N	4.1	2.7	3.7	5.9	5.5	11.0	9.1	7.3	8.6	9.1	6.9
27	8.6	4.6	— 2.7	—	—	7.8	16.0	9.6	12.4	7.8	11.9	16.0	9.2
28	P N	P N	1.4	5.9	4.1	4.1	7.8	11.0	5.9	6.9	P N	2.7	6.3
29	1.4	— 0.5	1.4	1.8	2.3	5.9	5.9	1.8	0.9	3.7	2.7	3.7	4.6
30	1.4	0.0	1.4	—	—	— 1.8	3.2	6.9	4.1	3.7	4.6	3.2	2.9
31	0.9	1.4	1.4	—	—	4.6	4.1	7.8	5.9	7.8	6.3	6.3	4.8
Hourly Means.	2.2	1.4	2.0	3.4	5.5	4.6	7.1	8.3	9.1	8.7	9.1	9.3	5.95

OCTOBER.

BAROMETRIC PRESSURE.

BAROMETER AT 0° C. = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	7.50	7.44	7.18	7.20	7.79	7.96	8.31	8.70	8.58	8.43	8.10	7.43	—
	2	7.61	7.28	7.04	7.30	7.68	7.93	8.39	8.38	8.25	8.08	7.74	7.03	—
	3	7.82	7.44	7.25	7.93	8.44	8.55	9.30	9.74	9.59	9.39	8.48	7.91	—
	4	7.69	7.25	7.22	7.59	8.11	8.34	8.96	9.49	9.62	9.51	9.08	8.42	—
	5	7.86	7.51	7.39	7.55	7.96	8.41	9.05	9.36	9.26	9.08	8.85	8.35	—
	6	8.06	7.79	7.38	7.61	7.84	8.20	8.85	9.10	9.23	8.85	8.60	7.92	—
	7	8.29	7.91	7.79	7.70	7.87	8.54	8.91	9.37	9.18	8.96	8.53	8.01	—
	8	7.96	7.48	7.09	7.10	7.46	7.83	8.11	8.74	8.70	8.99	8.74	8.22	—
	9	7.79	7.55	7.36	7.14	7.41	7.69	8.39	8.76	8.90	9.04	8.99	8.42	—
	10	8.40	8.06	7.66	7.42	7.87	8.51	8.96	9.81	9.71	9.36	8.91	8.24	—
	11	8.95	8.84	8.51	8.53	9.04	9.70	10.36	10.74	10.58	10.16	9.94	9.32	—
	12	8.46	7.96	7.88	7.79	8.11	8.62	9.29	9.71	9.73	9.64	9.20	8.82	—
	13	8.76	7.79	7.45	7.43	7.84	8.10	8.34	8.45	8.26	7.94	7.38	6.59	—
	14	7.36	6.99	6.70	6.86	7.16	7.34	7.99	8.15	8.48	8.34	7.87	7.37	—
	15	7.31	6.95	6.90	6.90	7.31	7.91	8.50	8.80	8.73	8.61	8.04	7.62	—
	16	8.05	7.66	7.14	7.26	7.44	7.69	8.04	8.46	8.19	7.75	7.48	6.97	—
	17	7.48	6.63	6.55	6.63	7.21	7.64	7.94	8.26	8.38	8.28	7.67	6.91	—
	18	7.06	6.51	6.38	6.28	6.55	7.25	7.94	8.19	8.27	8.46	7.73	7.11	—
	19	8.69	8.44	8.06	7.85	7.85	8.07	8.54	8.91	9.11	9.03	8.56	8.14	—
	20	7.90	7.56	7.25	7.20	7.45	7.91	8.20	8.51	8.61	8.44	7.93	7.52	—
	21	8.08	7.69	7.52	7.40	7.63	7.75	8.45	8.95	9.14	8.81	8.28	7.37	—
	22	7.75	7.08	7.00	6.78	6.96	7.41	8.06	8.31	8.23	8.33	8.08	7.51	—
	23	7.73	7.20	6.86	6.77	7.02	7.67	8.31	8.96	8.89	8.57	7.99	7.43	—
	24	7.96	7.20	6.90	6.86	7.02	7.27	7.67	7.85	8.00	7.90	7.73	7.59	—
	25	7.16	6.58	6.64	6.65	7.07	7.47	7.82	8.35	8.25	8.15	8.04	7.63	—
	26	7.71	7.16	6.83	6.94	7.21	7.59	7.90	8.11	8.20	8.19	7.72	7.48	—
	27	7.65	7.11	6.95	6.86	6.99	7.15	7.26	7.66	7.86	7.79	7.68	7.33	—
	28	7.67	7.28	6.99	7.15	7.59	8.09	8.59	8.88	9.05	8.68	8.21	7.53	—
	29	7.71	7.53	7.33	7.49	7.83	8.14	8.59	8.72	8.38	8.42	7.85	7.25	—
	30	8.03	7.25	7.43	7.05	7.39	7.46	8.20	8.73	8.74	8.55	7.79	7.22	—
Hourly Means.		7.88	7.43	7.22	7.24	7.57	7.94	8.44	8.81	8.80	8.66	8.24	7.69	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	6.57	6.19	5.66	5.72	5.83	6.87	7.12	7.70	8.31	8.27	8.21	7.90	7.44
	2	6.18	5.75	5.15	5.45	6.26	7.13	7.42	7.99	8.77	8.91	8.56	8.35	7.44
	3	7.15	6.67	5.81	6.02	6.25	6.80	7.13	7.88	8.33	8.57	8.25	8.06	7.87
	4	7.43	7.07	6.87	7.48	7.68	8.36	8.44	8.59	8.88	9.04	8.99	8.39	8.27
	5	7.67	7.01	6.33	5.97	6.13	6.63	7.18	7.69	8.32	8.57	8.64	8.48	7.89
	6	7.23	6.92	6.33	6.30	6.24	7.21	7.29	7.79	8.04	8.55	8.64	8.48	7.85
	7	7.29	6.73	6.26	6.17	6.32	7.00	7.66	7.95	8.40	8.65	8.74	8.43	7.94
	8	7.78	7.19	6.67	6.33	6.74	7.52	8.10	8.68	9.06	8.93	8.82	8.28	7.94
	9	7.49	6.89	6.54	6.26	6.82	7.59	7.69	8.46	9.04	9.09	9.13	8.71	7.96
	10	7.46	6.87	6.33	6.47	7.07	7.77	8.49	9.03	9.55	9.93	9.66	9.44	8.37
	11	8.71	7.60	6.96	7.03	7.53	7.85	8.15	8.73	9.22	9.39	9.33	8.85	8.92
	12	8.18	7.48	6.95	7.14	7.41	8.07	8.66	9.20	9.56	9.87	9.58	9.19	8.60
	13	6.13	5.61	5.27	5.52	5.76	6.58	7.35	8.00	8.40	8.44	8.18	7.55	7.38
	14	6.52	6.38	6.20	6.13	6.50	6.75	7.26	7.74	7.97	7.99	7.76	7.64	7.31
	15	6.72	6.81	6.71	6.60	6.84	7.36	7.95	8.48	8.77	8.85	9.00	8.63	7.76
	16	5.91	5.26	5.17	5.62	5.81	6.46	7.02	7.61	8.05	8.16	8.41	7.95	7.23
	17	6.32	5.82	5.53	5.46	5.55	6.09	6.80	7.28	7.65	7.76	7.68	7.49	7.04
	18	6.72	6.16	6.17	6.35	6.68	7.48	7.80	8.32	8.55	8.73	9.19	9.23	7.46
	19	7.62	7.02	6.63	6.78	7.25	7.89	8.20	8.65	8.78	8.72	8.61	8.49	8.16
	20	6.89	6.32	5.86	5.60	6.13	6.93	7.60	8.42	8.84	8.69	8.48	8.38	7.61
	21	6.70	5.91	5.80	5.86	6.37	7.23	7.55	8.16	8.63	8.79	8.48	8.04	7.69
	22	6.72	6.49	6.81	6.74	7.26	7.38	7.81	8.48	9.14	9.25	9.11	8.63	7.72
	23	6.60	5.93	5.66	5.58	6.05	6.89	7.38	7.83	8.49	8.73	8.75	8.45	7.49
	24	6.75	6.52	5.70	5.67	6.05	6.68	7.62	7.64	8.21	7.98	7.89	7.79	7.27
	25	6.87	6.36	6.06	5.92	6.39	6.95	7.63	7.91	8.54	8.70	8.37	8.14	7.40
	26	6.79	6.18	5.73	5.69	6.20	6.42	7.45	8.16	8.54	8.28	8.08	7.93	7.35
	27	6.66	6.17	5.88	5.83	5.87	6.31	7.20	7.64	7.86	8.00	8.01	7.89	7.15
	28	6.80	6.37	6.30	6.28	6.45	7.05	7.58	8.13	8.52	8.40	8.40	8.03	7.67
	29	6.45	5.80	6.15	6.37	6.61	7.28	7.85	8.29	8.79	8.69	8.74	8.68	7.71
	30	6.51	5.85	5.41	5.28	6.08	6.46	7.09	7.53	7.90	7.94	7.98	7.73	7.31
Hourly Means.		6.96	6.44	6.10	6.12	6.47	7.10	7.62	8.13	8.57	8.66	8.59	8.31	7.71

STANDARD THERMOMETER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER. 1	76.0	75.2	75.0	74.6	74.2	74.0	76.0	79.6	83.0	84.9	86.4	87.5	—
2	77.3	77.0	76.7	76.0	76.0	75.4	76.8	81.0	84.0	85.8	88.3	88.3	—
3	75.8	75.4	75.0	74.5	74.3	74.1	75.0	76.5	78.1	80.6	82.6	85.0	—
4	76.2	75.9	75.4	74.8	74.5	74.1	75.5	77.6	80.2	83.0	86.0	87.1	—
5	74.7	74.5	74.5	74.0	73.7	74.0	75.8	77.9	80.0	81.8	84.0	84.4	—
6	77.2	76.7	76.0	75.5	75.0	75.6	76.6	79.7	82.0	84.1	86.0	88.0	—
7	75.0	74.4	74.1	73.9	73.5	73.1	74.0	77.2	80.7	82.8	83.2	84.3	—
8	76.0	75.7	75.2	74.8	74.8	74.8	76.0	77.5	80.0	82.0	82.7	82.8	—
9	76.6	76.2	75.7	75.2	75.0	74.6	75.2	77.2	79.4	80.6	81.6	82.2	—
10	75.3	74.7	74.5	74.0	73.6	73.5	75.2	76.9	76.9	80.1	83.4	84.0	—
11	76.7	76.7	76.5	76.3	76.0	75.6	73.4	73.9	74.5	74.9	75.9	78.7	—
12	75.7	75.5	75.5	75.1	74.4	74.6	77.0	79.0	81.6	81.6	82.0	82.4	—
13	76.2	75.2	74.6	74.6	74.6	74.7	76.2	78.0	79.8	81.3	83.0	85.0	—
14	75.5	75.0	75.1	75.0	74.6	74.8	76.0	78.0	81.0	82.2	83.2	82.7	—
15	74.5	74.0	73.7	73.6	73.6	73.8	75.6	78.0	80.1	82.5	85.0	86.4	—
16	74.8	74.0	73.7	73.2	73.1	73.4	74.4	78.5	82.0	84.7	86.0	86.6	—
17	76.0	75.0	74.1	73.9	73.3	73.9	76.0	80.2	83.0	84.0	85.4	86.1	—
18	78.8	78.4	77.9	77.5	76.6	76.2	79.6	81.1	84.0	85.2	86.7	86.5	—
19	73.7	73.5	73.0	72.0	72.0	72.0	73.0	75.0	77.8	80.0	82.2	84.5	—
20	75.6	75.4	75.0	74.8	74.8	74.7	77.3	80.1	84.0	85.0	87.0	87.6	—
21	77.2	76.9	76.3	75.8	75.6	75.2	76.0	77.5	79.5	82.6	85.5	87.6	—
22	76.7	76.1	76.1	75.7	75.0	75.2	76.7	79.2	81.2	83.5	83.7	85.1	—
23	74.3	74.0	74.0	74.0	74.2	75.0	75.6	77.0	77.9	79.9	81.2	81.0	—
24	74.2	74.4	74.2	74.0	73.9	74.1	75.3	77.0	78.0	80.0	80.5	80.0	—
25	75.6	75.2	74.7	74.5	74.4	74.2	75.0	77.7	80.9	82.7	83.3	83.7	—
26	76.8	76.6	76.4	75.7	75.0	74.8	75.7	77.6	80.2	82.0	84.3	87.0	—
27	76.3	75.4	75.0	74.8	74.2	74.2	75.0	77.0	79.2	80.3	81.5	83.0	—
28	76.3	76.3	76.0	75.7	75.5	75.7	76.6	78.0	80.0	84.0	85.2	86.3	—
29	77.0	76.3	76.0	75.6	75.2	75.2	77.0	79.6	83.7	87.0	86.6	87.4	—
30	74.9	74.5	74.5	74.5	74.5	74.1	75.7	78.7	81.0	82.3	84.4	86.0	—
Hourly Means.	75.90	75.47	75.15	74.79	74.50	74.49	75.77	78.07	80.46	82.38	83.88	84.91	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER. 1	87.1	86.5	86.2	85.2	84.1	83.1	82.7	80.9	79.1	78.3	78.0	77.4	80.61
2	87.3	87.1	86.5	86.2	84.3	82.5	80.8	80.1	78.5	77.9	77.1	76.5	81.14
3	86.6	88.0	88.2	87.9	86.2	84.2	81.7	80.5	79.7	78.4	77.6	76.9	80.12
4	86.5	86.2	82.6	79.4	78.2	77.0	76.2	75.6	75.8	75.6	75.5	75.1	78.50
5	85.2	85.0	85.7	86.2	85.7	83.8	82.2	81.2	80.6	79.4	78.2	77.7	80.01
6	87.7	83.8	83.0	83.4	81.5	79.2	78.4	77.8	77.0	76.1	75.9	75.3	79.65
7	84.5	85.0	85.1	84.0	83.5	82.2	80.0	78.8	78.0	77.3	76.8	76.6	79.08
8	81.9	81.3	81.0	81.1	81.1	80.4	79.3	78.9	78.4	77.8	77.3	77.0	78.66
9	83.0	83.0	82.8	82.2	81.4	80.7	79.5	78.3	77.2	76.4	75.9	75.4	78.55
10	84.3	84.5	84.0	82.5	81.7	81.2	80.7	79.9	79.3	78.8	78.0	77.4	78.93
11	79.0	80.0	81.4	82.0	81.0	80.0	79.1	78.1	77.6	77.2	76.7	76.1	77.39
12	82.9	83.2	80.6	81.0	81.1	80.0	79.1	78.8	78.1	77.4	76.8	76.7	78.75
13	85.6	86.0	85.7	83.3	81.8	80.4	78.5	77.5	76.7	76.0	76.0	75.7	79.02
14	84.8	82.7	80.7	80.1	79.2	78.2	77.2	77.2	76.9	76.3	76.1	75.4	78.25
15	85.9	80.6	79.6	79.0	79.6	79.0	78.9	78.0	77.2	76.2	75.2	75.0	78.13
16	87.7	86.3	85.8	84.5	84.0	83.0	82.0	80.7	79.7	78.0	77.2	76.3	79.98
17	83.1	79.7	80.9	82.2	81.5	80.5	80.0	79.7	79.5	79.3	79.0	78.8	79.38
18	85.3	85.0	83.0	81.2	81.0	80.2	79.2	78.3	78.1	78.3	77.0	75.1	80.43
19	84.0	85.0	84.7	84.0	81.1	79.7	78.9	78.3	77.5	76.8	76.0	76.0	77.95
20	88.8	89.3	88.7	87.7	86.6	84.6	83.0	81.3	80.0	79.0	78.3	77.6	81.51
21	89.1	88.6	86.4	85.0	83.9	82.0	81.2	79.2	78.5	77.9	77.2	76.7	80.48
22	84.7	82.3	78.0	76.9	76.3	75.5	75.7	75.3	75.1	75.0	74.8	74.8	77.86
23	81.0	81.4	81.4	81.4	80.9	79.2	78.5	78.0	77.5	76.7	75.1	74.5	77.65
24	80.0	80.2	80.9	80.0	79.0	78.0	77.4	77.0	77.0	76.9	76.7	76.2	77.29
25	84.3	82.7	81.2	80.3	79.8	79.0	78.6	78.0	77.6	77.6	77.0	76.6	78.53
26	87.2	88.2	87.7	86.1	84.7	82.8	81.0	80.5	79.7	79.0	78.0	77.2	80.59
27	84.0	85.0	85.0	82.9	81.8	81.0	80.1	79.2	78.6	78.0	77.5	77.0	79.00
28	87.1	85.9	85.6	86.0	85.0	82.8	81.8	80.7	80.1	79.2	78.4	78.0	80.68
29	88.2	89.2	84.0	82.0	81.4	80.6	78.6	78.2	77.7	76.3	76.1	75.7	80.19
30	88.7	88.7	89.7	89.2	85.5	82.7	81.3	79.4	78.9	78.0	77.4	76.4	80.46
Hourly Means.	85.18	84.68	83.87	83.10	82.10	80.78	79.72	78.85	78.19	77.50	76.89	76.37	79.29

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER. 1	881	905	904	921	921	921	882	803	713	666	600	600	—
2	900	900	916	923	915	922	907	769	675	610	515	603	—
3	915	914	914	930	930	930	930	906	877	782	710	651	—
4	890	906	914	922	930	938	914	867	782	691	636	562	—
5	913	922	922	938	938	938	864	768	781	714	661	649	—
6	859	866	881	905	913	840	826	773	722	649	649	585	—
7	913	913	904	903	914	920	904	844	775	703	725	701	—
8	899	898	905	913	904	913	906	884	848	750	731	745	—
9	916	932	923	930	930	939	922	875	833	797	757	737	—
10	947	956	947	947	947	947	947	916	932	842	734	707	—
11	924	924	940	940	957	948	946	956	956	965	931	838	—
12	931	939	939	939	956	947	866	771	735	742	694	688	—
13	881	905	913	921	913	888	873	820	794	762	738	676	—
14	848	872	863	880	897	897	881	814	755	729	754	745	—
15	897	904	912	912	912	912	872	813	788	710	665	595	—
16	904	938	938	955	946	946	939	778	743	632	649	644	—
17	873	905	921	921	929	903	856	745	671	634	647	624	—
18	777	799	797	812	826	857	795	762	694	659	626	650	—
19	929	938	955	928	936	928	920	905	852	774	709	631	—
20	848	840	846	863	871	879	812	746	663	659	628	630	—
21	851	858	890	905	898	897	881	867	809	703	647	594	—
22	940	948	923	914	930	930	906	832	755	699	706	684	—
23	947	947	938	938	921	888	898	866	867	795	762	783	—
24	939	939	939	930	921	930	914	875	836	817	774	802	—
25	889	897	897	888	879	896	897	836	783	745	685	673	—
26	810	810	809	840	855	863	864	820	752	728	682	597	—
27	849	855	863	871	904	904	880	851	771	774	727	718	—
28	906	890	899	905	898	864	850	829	795	673	665	638	—
29	842	865	873	872	897	897	858	780	687	610	645	648	—
30	913	921	921	921	930	930	898	815	740	695	624	605	—
Hourly Means.	891	900	904	910	914	910	887	830	779	724	689	667	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER. 1	616	657	643	645	687	753	801	789	823	861	876	900	782
2	616	616	650	637	681	744	782	810	853	876	900	915	776
3	608	572	567	595	669	721	735	781	817	853	875	883	794
4	644	650	648	779	836	882	898	914	923	939	931	922	830
5	659	677	661	637	687	727	764	697	745	794	821	836	780
6	623	761	802	739	748	771	814	867	891	915	915	914	801
7	709	652	645	693	719	778	817	830	860	891	906	899	813
8	749	755	790	798	805	826	870	870	908	908	916	924	851
9	718	738	745	764	762	804	848	885	907	923	923	947	852
10	682	663	715	787	799	820	857	886	886	901	925	907	858
11	823	766	735	744	791	818	847	893	917	907	924	931	888
12	731	691	724	711	705	766	785	778	814	828	858	857	808
13	640	668	660	697	720	767	777	820	842	849	857	864	802
14	670	716	789	810	779	791	812	780	818	833	841	864	810
15	648	811	848	862	855	885	831	805	819	873	897	897	830
16	655	714	706	736	755	703	686	723	720	805	843	865	788
17	795	786	843	765	735	782	795	809	794	785	793	784	796
18	646	665	696	711	703	722	756	791	791	753	843	914	752
19	654	658	696	706	689	757	783	790	812	833	832	832	810
20	617	544	551	630	663	668	731	776	795	823	837	867	741
21	548	575	657	710	686	777	813	862	901	917	932	948	797
22	670	716	852	899	906	923	923	922	930	947	947	947	865
23	769	756	719	748	746	809	792	829	844	874	914	922	845
24	802	787	753	758	784	805	843	851	851	850	866	890	852
25	656	682	697	730	750	770	731	760	789	789	818	810	789
26	611	590	600	669	689	717	755	767	786	784	820	834	752
27	751	646	653	753	771	783	803	823	853	876	875	883	840
28	634	661	647	674	709	710	735	775	788	801	830	813	775
29	621	612	698	742	769	789	846	845	859	899	898	905	790
30	557	563	545	514	613	673	704	756	784	805	788	817	754
Hourly Means.	671	678	698	721	740	775	798	816	837	856	873	883	806

DIRECTION OF THE WIND.

NOVEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12
1	W	C	C	C	C	W	W	WSW	S	ESE	SSW	N
2	C	N	C	C	C	C	N	ESE	E	E	SE	NNE
3	C	C	N	C	C	N	NNW	NW	NW	NW	NW	NW
4	C	C	C	C	C	C	WSW	WSW	WSW	S	SSE	SW
5	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	WNW	WNW
6	WSW	WSW	C	C	WSW	WSW	SW	SSW	SW	SW	N	SW
7	C	C	C	C	C	C	C	NW	WNW	NNE	NNE	N
8	C	C	C	NE	NE	C	C	NE	W	WSW	WSW	SSW
9	C	C	C	C	C	C	ENE	ENE	E	E	E	E
10	C	E	E	E	C	C	C	E	ENE	E	ENE	NE
11	NE	NE	NE	NE	NE	NE	WNW	WNW	WNW	W	W	WNW
12	C	C	C	C	C	C	NW	WNW	W	WNW	W	W
13	W	C	C	C	W	W	W	WNW	WNW	NW	WNW	W
14	WNW	W	W	W	WNW	WNW	WNW	W	WNW	WNW	WSW	W
15	C	C	C	WSW	C	WSW	WSW	WSW	WSW	W	NW	NW
16	C	C	C	C	C	C	WNW	WNW	NW	W	NW	NNW
17	C	C	C	C	C	W	W	W	W	WNW	NW	NNW
18	WSW	WSW	WSW	SW	SW	SW	SW	WSW	W	W	WSW	WSW
19	W	WNW	WNW	W	W	W	W	W	SW	SW	WSW	WNW
20	W	W	W	C	C	W	WSW	SW	SW	NW	W	NW
21	C	SW	SW	SW	C	C	SW	SW	SW	WNW	W	NW
22	C	WNW	C	C	C	C	WNW	WNW	W	W	WNW	W
23	W	W	W	W	W	W	W	W	WSW	W	W	W
24	W	W	W	W	W	W	W	W	W	WSW	W	WNW
25	W	W	W	W	W	W	W	WNW	NW	WNW	W	WNW
26	W	W	W	W	W	W	W	W	WNW	W	W	W
27	C	W	W	W	W	C	C	W	NW	NW	NW	NW
28	WNW	WNW	C	C	WNW	WNW	WNW	WNW	WNW	W	NW	WNW
29	C	C	C	C	C	C	C	C	SW	W	NW	NW
30	C	C	C	C	C	C	C	SSW	SW	SW	WNW	W

NOVEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12
1	NE	N	N	N	N	N	N	N	N	N	N	C
2	NE	N	NNE	NNE	N	N	N	N	C	C	C	C
3	WNW	WNW	WNW	WSW	WSW	WSW	WSW	C	C	C	WSW	C
4	N	N	WNW	SSW	SSW	SSW	C	C	SSW	SSW	SSW	SSW
5	NW	N	NW	NW	NW	NW	NW	SW	SW	SW	SW	SW
6	NNE	NNW	N	N	NW	NNW	NNW	NNW	NNW	C	C	C
7	NNE	NNE	NE	NNE	NE	NE	NE	NE	C	C	C	C
8	SSE	ENE	ENE	ENE	ENE	C	C	C	C	C	C	C
9	SE	ESE	E	E	E	E	E	C	C	C	E	C
10	NNE	N	NNE	NE	NE	NE	C	C	NE	NE	NE	NE
11	NW	NW	NE	NE	NE	NE	NE	NE	C	C	C	C
12	W	WSW	W	WNW	W	W	W	W	C	W	W	W
13	WNW	WNW	WNW	W	W	WNW	NW	W	W	W	W	W
14	W	WNW	NW	WNW	W	W	W	W	WSW	WSW	WSW	C
15	NNW	NW	WNW	WNW	C	C	WNW	WNW	C	C	C	C
16	N	N	NW	NW	NW	WNW	WNW	WNW	WNW	C	C	C
17	NW	WNW	NW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW
18	W	W	WSW	W	WSW	W	W	W	WSW	W	W	W
19	WNW	WNW	WNW	WNW	W	W	WSW	WSW	W	W	W	W
20	WNW	W	W	SW	SW	SW	SW	SW	SW	SW	SW	C
21	WNW	NW	NW	NW	WNW	WNW	WNW	WNW	C	C	C	C
22	W	W	W	W	W	W	W	W	W	W	W	W
23	W	W	WNW	WNW	W	W	W	W	W	W	W	W
24	WNW	WNW	WNW	W	W	WNW	W	WNW	W	WSW	W	W
25	WNW	W	W	W	WNW	W	WNW	W	WNW	WNW	W	W
26	WNW	NW	WNW	WNW	WNW	WNW	WNW	W	W	W	C	C
27	NNW	NW	NW	WNW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW
28	WNW	NW	NW	WNW	WNW	WNW	C	C	C	C	C	C
29	NW	NW	SW	SW	SW	SW	SSW	C	C	C	C	C
30	W	NW	WNW	W	WSW	SW	C	C	C	SW	C	C

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

NOVEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.8	0.0	0.0	0.0	0.0	0.8	4.8	7.2	5.6	4.0	3.2	5.6	—
2	0.0	0.8	0.0	0.0	0.0	0.0	3.2	7.2	11.3	7.2	6.4	12.9	—
3	0.0	0.0	0.8	0.0	0.0	0.8	3.2	2.4	0.8	1.6	2.4	4.0	—
4	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.0	4.8	4.8	5.6	—
5	1.6	2.4	1.6	0.8	0.8	4.0	4.8	10.5	8.0	5.6	4.8	3.2	—
6	1.6	0.8	0.0	0.0	0.8	3.2	5.6	4.0	4.0	6.4	5.6	7.2	—
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.4	3.2	4.0	4.8	—
8	0.0	0.0	0.0	0.8	0.8	0.0	0.0	1.6	3.2	3.2	2.4	3.2	—
9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.4	6.4	4.8	—
10	0.0	0.8	1.6	0.8	0.0	0.0	0.0	1.6	3.2	8.0	9.7	11.3	—
11	0.8	0.8	0.8	0.8	0.8	6.4	6.4	1.6	3.2	3.2	2.4	4.8	—
12	0.0	0.0	0.0	0.0	0.0	0.0	4.0	7.2	8.0	7.2	9.7	8.9	—
13	0.8	0.0	0.0	0.0	0.8	3.2	4.8	4.8	7.2	8.0	8.0	8.0	—
14	4.8	4.8	6.4	4.8	3.2	1.6	4.0	7.2	6.4	8.0	8.0	6.4	—
15	0.0	0.0	0.0	1.6	0.0	0.8	4.8	3.2	6.4	6.4	9.7	11.3	—
16	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.4	8.0	8.9	12.1	10.5	—
17	0.0	0.0	0.0	0.0	0.0	0.8	3.2	7.2	7.2	8.9	8.0	10.5	—
18	1.6	1.6	5.6	2.4	0.8	1.6	4.8	7.2	8.0	10.5	6.4	10.5	—
19	5.6	3.2	4.8	3.2	0.8	0.8	0.8	2.4	7.2	5.6	5.6	7.2	—
20	1.6	0.8	0.8	0.0	0.0	1.6	7.2	6.4	7.2	6.4	6.4	8.0	—
21	0.0	0.8	0.8	0.8	0.0	0.0	0.8	3.2	3.2	6.4	8.0	9.7	—
22	0.0	0.8	0.0	0.0	0.0	0.0	2.4	5.6	5.6	8.0	11.3	12.1	—
23	1.6	1.6	1.6	1.6	3.2	3.2	4.8	9.7	8.9	11.3	10.5	8.9	—
24	2.4	1.6	3.2	5.6	4.8	4.8	6.4	7.2	10.5	12.1	12.1	11.3	—
25	0.8	1.6	0.8	1.6	4.0	3.2	4.0	8.9	9.7	11.3	12.1	14.5	—
26	5.6	4.0	3.2	3.2	1.6	1.6	4.6	5.6	6.4	8.0	8.0	8.0	—
27	0.0	0.8	0.8	0.8	0.8	0.0	0.0	2.4	4.8	4.8	2.4	4.0	—
28	1.6	0.8	0.0	0.0	1.6	1.6	1.6	2.4	3.2	5.6	8.0	7.2	—
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.2	4.8	7.2	—
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.4	4.8	6.4	6.4	—
Hourly Means.	1.04	0.93	1.09	0.96	0.83	1.33	2.93	4.76	5.67	6.50	6.99	7.93	—

NOVEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	8.9	11.3	13.7	10.5	8.0	3.2	3.2	1.6	3.2	3.2	0.8	0.0	4.15
2	14.5	16.9	12.9	10.5	5.6	1.6	0.8	0.8	0.0	0.0	0.0	0.0	4.69
3	5.6	7.2	6.4	6.4	3.2	2.4	0.8	0.0	0.0	0.0	0.8	0.0	2.03
4	9.7	10.5	10.5	8.9	2.4	0.8	0.0	0.0	0.8	0.8	1.6	1.6	2.98
5	4.8	5.6	4.8	3.2	2.4	0.8	1.6	4.8	1.6	0.8	1.6	1.6	3.40
6	8.9	5.6	5.6	8.0	4.8	1.6	0.8	1.6	1.6	0.0	0.0	0.0	3.24
7	7.2	9.7	8.9	8.9	5.6	1.6	4.8	1.6	0.0	0.0	0.0	0.0	2.78
8	4.8	4.8	3.2	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.33
9	5.6	5.6	5.6	7.2	6.4	4.8	1.6	0.0	0.0	0.0	0.8	0.0	2.27
10	11.3	12.1	14.5	10.5	6.4	1.6	0.0	0.0	0.8	0.8	1.6	2.4	4.13
11	4.8	4.8	8.0	4.8	1.6	3.2	3.2	0.8	0.0	0.0	0.0	0.0	2.63
12	8.9	12.9	7.2	5.6	3.2	2.4	1.6	0.8	0.0	0.8	0.8	1.6	3.78
13	10.5	9.7	12.9	11.3	8.0	6.4	8.0	8.0	6.4	6.4	4.0	4.0	5.88
14	8.9	8.9	4.8	4.0	6.4	4.8	4.8	6.4	4.8	4.8	1.6	0.0	5.24
15	9.7	4.8	2.4	0.8	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	2.65
16	11.3	15.3	8.0	4.8	3.2	3.2	4.0	3.2	0.8	0.0	0.0	0.0	4.25
17	11.3	8.9	1.6	5.6	4.8	1.6	2.4	4.8	5.6	4.8	5.6	4.8	4.48
18	11.3	11.3	10.5	8.9	4.8	4.8	5.6	6.4	4.0	8.0	3.2	6.4	6.09
19	8.0	8.0	5.6	7.2	3.2	0.8	2.4	3.2	0.8	0.8	1.6	0.8	3.73
20	9.7	11.3	11.3	6.4	3.2	1.6	1.6	1.6	2.4	1.6	1.6	0.0	4.11
21	8.0	9.7	9.7	6.4	3.2	2.4	0.8	0.8	0.0	0.0	0.0	0.0	3.11
22	10.5	11.3	8.0	4.0	3.2	0.8	0.8	1.6	2.4	0.8	1.6	1.6	3.85
23	8.0	8.9	5.6	8.0	7.2	8.0	6.4	6.4	6.4	5.6	4.0	4.8	6.09
24	9.7	8.9	12.1	8.0	8.0	6.4	6.4	5.6	4.8	5.6	3.2	1.6	6.76
25	14.5	15.3	13.7	11.3	9.7	8.9	7.2	8.0	8.0	8.0	8.0	8.9	8.08
26	8.9	8.0	8.9	10.5	9.7	8.0	5.6	3.2	0.8	0.8	0.0	0.0	5.05
27	4.8	3.2	7.2	4.8	1.6	1.6	3.2	2.4	1.6	0.8	1.6	0.8	2.30
28	6.4	3.2	1.6	1.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.07
29	12.9	14.5	7.2	1.6	1.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	2.51
30	8.0	9.7	9.7	9.7	7.2	1.6	0.0	0.0	0.0	1.6	0.0	0.0	2.88
Hourly Means.	8.91	9.26	8.07	6.73	4.62	2.96	2.67	2.48	1.89	1.87	1.47	1.36	3.89

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

NOVEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	1	1	0	0	3	2	1	0	0	9	9	7	—
2	1	7	2	0	1	2	1	1	1	1	3	3	—
3	2	1	1	2	5	8	10	9	9	10	9	8	—
4	3	6	3	4	3	6	6	8	10	9	7	9	—
5	5	10	10	10	6	6	9	10	10	9	9	10	—
6	10	10	10	10	10	10	10	6	9	9	5	9	—
7	9	4	4	3	5	7	10	8	9	10	10	10	—
8	5	4	6	5	7	10	10	10	10	10	10	10	—
9	10	10	10	9	9	9	10	9	10	10	10	10	—
10	6	4	7	6	6	6	9	10	10	7	6	8	—
11	10	10	10	10	10	10	10	10	10	10	10	8	—
12	8	10	10	7	8	7	10	4	6	10	10	10	—
13	9	6	10	10	10	10	10	10	10	7	8	7	—
14	9	10	10	9	10	10	9	9	10	10	10	10	—
15	5	6	7	6	7	9	9	10	9	9	7	8	—
16	8	5	4	7	10	9	7	5	2	1	6	10	—
17	1	1	1	2	3	5	3	3	5	7	8	10	—
18	9	9	8	5	2	9	9	9	7	9	9	10	—
19	10	10	10	10	10	10	10	10	10	10	9	10	—
20	10	10	10	10	10	6	7	6	4	4	4	8	—
21	7	8	8	6	4	6	10	10	10	10	9	6	—
22	9	8	7	2	9	9	10	9	8	8	9	9	—
23	10	9	10	10	10	10	10	10	10	9	9	10	—
24	10	10	10	10	10	10	10	10	10	10	10	10	—
25	8	10	10	10	10	9	7	2	3	6	7	7	—
26	8	8	6	5	8	10	10	7	6	10	10	6	—
27	0	0	0	1	3	9	10	10	10	10	10	10	—
28	9	10	10	10	10	10	10	9	10	7	9	9	—
29	6	7	6	5	9	8	10	9	5	8	9	9	—
30	4	4	3	5	6	2	4	7	9	9	9	8	—
Hourly Means.	6.7	6.9	6.8	6.3	7.1	7.8	8.4	7.7	7.7	8.3	8.3	8.6	—

NOVEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	7	2	2	4	3	7	8	6	2	1	8	3	3.6
2	4	1	0	0	6	7	1	1	9	1	0	2	2.3
3	4	4	4	5	6	3	5	6	4	4	6	4	5.4
4	9	10	10	10	10	10	10	10	10	10	10	5	7.8
5	9	9	9	9	8	5	4	9	10	10	10	10	8.6
6	7	10	7	7	6	9	6	7	4	5	4	8	7.8
7	8	6	6	8	5	9	2	1	3	3	7	8	6.5
8	10	10	10	10	10	10	8	8	10	10	10	10	8.9
9	10	10	10	10	10	7	2	2	3	5	6	6	8.2
10	5	2	3	6	9	10	10	8	10	9	7	9	7.2
11	10	7	6	6	9	9	8	8	8	9	9	8	9.0
12	10	8	10	10	10	10	10	10	10	10	10	10	9.1
13	10	10	9	9	10	10	10	10	10	10	10	10	9.4
14	10	10	10	10	10	6	6	4	9	10	8	8	9.0
15	9	10	10	10	10	10	6	3	1	0	0	3	6.8
16	5	2	4	8	8	9	9	10	8	4	8	5	6.4
17	7	10	10	7	10	10	10	10	10	7	6	3	6.2
18	10	10	10	10	10	10	10	10	10	10	10	10	9.0
19	10	10	10	10	10	10	10	10	9	5	9	10	9.7
20	6	8	8	8	10	9	8	9	10	10	10	8	8.0
21	4	8	10	10	10	10	10	10	10	10	9	10	8.5
22	6	10	10	10	10	10	10	10	10	10	10	9	8.8
23	10	10	10	10	10	10	10	10	10	10	10	10	9.9
24	10	10	10	10	10	10	10	6	7	9	9	7	9.5
25	6	8	10	10	10	10	10	8	9	10	7	8	8.1
26	8	8	7	9	8	9	10	5	10	6	2	2	7.4
27	10	10	10	10	10	10	10	9	9	9	8	9	7.8
28	10	10	10	10	10	10	10	10	10	10	10	7	9.6
29	7	7	9	10	10	9	7	5	3	3	4	3	7.0
30	2	4	2	1	5	2	1	3	4	3	4	3	4.3
Hourly Means.	7.8	7.8	7.9	8.2	8.8	8.7	7.7	7.3	7.7	7.1	7.4	6.9	7.66

NOVEMBER.

Mean Batavia Time.	8–8½ A M.	8½–9	9–9½	9½–10	10–10½	10½–11	11–11½	11½–12	12–12½ P. M.	12½–1	1–1½	1½–2	2–2½	2½–3	3–3½	3½–4	Daily and Monthly Means.
1	10	10	10	8	9	4	4	4	5	4	4	7	10	10	10	4	7.1
2	10	10	10	10	10	10	8	7	10	10	10	10	10	10	10	10	9.7
3	1	0	0	0	0	1	3	3	3	4	1	5	8	6	8	8	3.2
4	1	3	5	5	5	4	5	1	3	1	1	1	0	0	0	0	2.2
5	1	1	0	0	1	4	6	0	0	0	0	0	1	1	5	3	1.4
6	5	0	9	7	7	8	4	7	5	7	4	0	0	2	3	6	4.6
7	6	5	8	2	0	0	1	0	0	4	7	7	4	8	4	1	3.6
8	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1
9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
10	0	0	0	3	7	6	4	2	1	4	9	9	9	9	7	3	4.6
11	0	0	0	0	0	0	0	4	2	0	0	6	7	8	4	7	2.4
12	9	9	9	3	1	2	1	0	0	1	3	4	5	0	0	1	3.0
13	0	0	0	0	2	4	3	2	3	2	4	6	7	7	7	7	3.4
14	2	3	3	1	1	1	1	1	0	3	4	0	0	0	0	0	1.3
15	0	0	3	3	7	9	10	9	9	8	2	0	0	0	0	0	3.8
16	10	9	9	10	10	10	9	7	8	9	7	7	9	7	0	0	7.6
17	10	8	6	2	3	2	6	5	0	1	5	0	0	0	2	4	3.4
18	4	6	9	9	5	5	1	3	1	0	4	0	1	2	2	0	3.3
19	0	0	4	1	0	0	1	3	1	0	0	1	0	0	0	0	0.7
20	10	10	5	2	10	10	4	5	1	6	4	7	8	8	9	8	6.7
21	0	0	0	1	1	3	7	10	9	10	6	3	3	1	0	1	3.4
22	6	0	3	1	6	0	5	7	8	5	1	0	0	0	0	0	2.6
23	0	0	0	1	4	3	1	0	1	0	0	0	0	0	0	0	0.6
24	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0.3
25	10	9	9	7	8	8	8	4	3	8	7	1	2	0	1	0	5.3
26	3	4	5	0	1	3	3	5	3	4	1	3	4	0	1	1	2.6
27	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.1
28	0	0	1	5	6	5	4	4	4	2	0	0	0	0	0	0	1.9
29	6	10	10	10	7	5	6	6	3	5	8	7	1	0	0	0	5.3
30	0	1	2	0	2	6	6	4	10	9	6	8	6	10	10	10	5.6
Means.	3.5	3.3	4.0	3.1	3.8	3.8	3.7	3.4	3.1	3.6	3.3	3.1	3.2	3.0	2.8	2.5	3.33

BLACK BULB THERMOMETER IN VACUO.

CENTESIMAL DEGREES.

NOVEMBER.

Mean Batavia Time.	7h30 A. M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	40.8	45.5	48.0	49.9	51.8	44.9	54.6	50.4	40.4	46.4	51.2	39.6	47.5	49.2	50.9	49.4	47.3	34.9	31.9
2	41.1	46.5	47.8	50.0	50.8	52.4	53.0	55.5	47.1	53.6	53.3	52.9	52.6	53.4	52.3	50.0	45.4	33.9	31.9
3	29.9	31.9	32.8	35.9	37.0	41.8	41.1	44.9	47.4	45.4	46.9	47.0	43.7	53.9	49.4	50.4	49.4	36.0	33.9
4	32.2	35.6	38.0	43.6	48.0	48.9	49.5	54.4	51.2	49.2	47.0	44.6	45.8	43.7	42.2	34.9	33.6	27.6	25.9
5	28.1	29.8	35.9	40.0	39.3	41.1	46.1	50.4	49.0	42.4	42.2	43.6	43.5	42.0	41.5	40.5	45.6	37.4	34.8
6	36.3	44.9	40.2	47.9	51.5	45.4	48.8	52.4	46.2	48.5	50.4	53.8	42.0	—	—	41.0	39.2	33.8	31.6
7	29.5	42.4	42.9	45.4	48.4	42.3	38.9	40.9	46.0	41.6	40.2	44.9	47.2	47.9	42.9	47.9	42.4	35.4	31.9
8	28.4	32.3	34.7	39.9	42.8	43.2	40.1	38.6	36.6	35.9	34.8	32.9	33.3	33.2	32.4	30.4	29.9	33.2	32.4
9	29.8	35.7	37.6	35.5	35.9	39.1	39.3	35.9	37.0	40.2	41.6	37.2	34.7	34.4	34.3	32.3	33.9	31.8	25.9
10	30.9	—	—	—	—	47.4	53.6	51.0	49.9	41.9	42.9	51.1	51.3	50.2	49.9	50.7	40.0	32.4	30.6
11	—	—	—	—	—			32.9	40.0	49.4	40.9	38.4	36.1	43.9	46.8	47.4	40.3	33.6	31.1
12	31.2	44.9	44.2	50.7	53.8	39.6	42.1	42.7	42.8	40.6	41.3	43.4	42.7	43.4	41.0	33.4	32.8	34.4	31.3
13	32.4	34.3	35.5	37.9	39.4	41.6	42.8	41.4	42.5	45.4	42.6	48.9	42.5	46.1	43.6	43.3	42.6	34.4	31.6
14	37.6	39.1	41.4	49.4	44.7	48.6	46.1	45.8	46.4	37.4	43.1	48.9	46.9	40.6	37.4	—	29.9	28.9	—
15	32.6	33.9	36.2	44.2	46.7	46.4	52.1	51.8	54.5	52.9	54.7	46.4	37.5	—	—	27.5	26.7	27.4	27.8
16	41.0	47.4	49.1	51.4	51.8	52.9	53.5	53.4	55.1	47.9	54.2	52.3	48.6	51.4	52.1	38.8	33.3	32.6	31.9
17	43.6	48.9	50.0	47.7	49.2	43.2	45.4	48.0	50.1	45.2	39.3	—	—	35.3	35.4	35.4	—	—	35.4	32.6
18	35.2	41.0	44.0	51.3	51.0	49.2	50.1	49.9	45.1	42.9	41.3	47.2	43.8	44.2	42.4	39.9	34.2	32.4	29.9
19	27.6	31.0	32.1	39.8	44.5	43.7	43.1	44.1	46.4	47.9	44.3	39.9	43.1	43.9	39.6	36.4	37.2	34.4	29.9
20	41.8	49.4	51.1	52.8	48.9	54.9	53.7	50.9	42.7	44.2	43.4	55.0	47.0	54.4	52.1	50.7	48.1	36.0	35.1
21	28.2	31.9	34.1	36.9	39.8	48.9	49.7	50.5	51.9	53.9	54.0	53.9	49.2	44.9	42.2	37.2	34.9	34.4	32.9
22	42.0	42.6	41.3	39.3	45.7	44.9	52.8	45.3	49.8	51.4	48.6	45.9	40.3	34.9	—	—	—	—	—
23	27.4	30.9	34.5	36.0	37.6	44.6	44.9	42.4	43.6	42.9	43.5	39.1	40.7	39.3	38.2	33.7	32.3	33.3	32.0
24	30.4	35.5	34.6	38.2	36.9	43.0	47.9	42.0	41.1	39.6	—	—	40.9	35.9	35.4	36.7	33.6	31.1	29.5
25	38.6	45.9	48.4	47.9	52.0	48.9	53.2	50.3	51.4	43.6	43.5	53.4	50.0	41.3	42.6	36.4	36.4	31.7	29.8
26	32.2	36.4	39.1	45.4	47.1	41.4	45.0	47.4	45.6	50.4	47.0	48.4	49.1	50.9	51.9	40.0	39.4	37.2	34.4
27	28.2	32.9	35.5	32.9	36.2	40.4	39.9	41.5	40.3	43.3	41.5	43.4	43.4	43.4	45.4	35.4	34.9	36.9	29.9
28	30.9	35.4	37.2	37.6	44.2	54.2	50.6	49.4	51.6	50.4	51.4	46.5	46.6	44.0	41.6	40.2	39.4	38.5	35.9
29	34.7	37.2	46.8	53.9	56.5	53.9	52.4	46.8	46.4	48.9	48.3	49.4	54.6	50.4	36.2	32.2	30.0	28.4	27.9
30	34.4	37.4	37.4	41.9	41.4	41.4	43.8	49.2	51.4	50.3	53.3	54.4	54.0	48.8	48.7	50.7	48.4	33.4	32.4
Means.	33.69	38.59	40.37	43.69	45.46	45.80	47.38	46.67	46.32	45.79	45.75	46.51	44.46	44.46	43.27	40.27	37.90	33.48	31.31

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER. 1	7.3	8.6	11.4	9.1	8.3	8.6	5.9	0.5	0.9	1.8	1.8	— 1.4	—
2	8.6	5.9	7.3	6.3	6.9	11.4	7.3	0.9	1.4	0.5	1.4	0.0	—
3	9.1	11.0	10.1	5.9	6.3	6.9	5.9	3.7	2.3	0.9	0.5	1.8	—
4	6.9	3.7	5.9	3.7	2.7	5.9	3.2	4.6	1.8	0.0	— 0.9	0.5	—
5	5.0	4.6	4.6	5.0	4.6	3.2	3.7	2.3	3.7	2.3	1.4	3.2	—
6	7.3	5.9	8.6	8.6	9.1	5.5	5.9	4.1	2.7	2.3	1.4	0.9	—
7	9.1	7.3	6.3	6.3	6.3	8.6	9.6	5.0	1.8	1.4	0.5	0.9	—
8	8.3	7.3	5.0	5.9	5.0	5.5	6.9	5.9	4.6	2.3	2.3	0.5	—
9	10.5	11.0	9.1	6.3	9.1	13.7	6.9	5.0	2.7	0.9	1.8	1.4	—
10	16.9	16.0	13.3	11.4	9.6	20.6	26.1	P N	P N	2.3	1.4	1.4	—
11	20.6	18.3	16.0	P N	— 11.4	11.0	N	N	N	— 6.9	9.1	3.2	—
12	10.5	9.6	8.3	7.8	5.9	9.6	9.6	3.7	2.3	2.3	1.4	0.9	—
13	6.9	5.9	6.9	5.9	5.5	5.5	7.8	4.6	4.1	4.1	3.7	1.4	—
14	4.6	— 2.3	4.6	4.6	4.6	7.8	7.3	5.5	5.5	3.2	3.7	2.7	—
15	8.6	11.0	13.7	12.4	6.9	11.4	9.1	5.5	4.1	3.7	2.3	1.8	—
16	8.3	9.6	8.3	7.8	7.8	6.3	9.1	4.6	3.7	2.7	2.3	2.3	—
17	14.6	12.4	13.3	10.1	12.4	5.5	5.9	3.2	2.7	2.3	2.3	0.9	—
18	5.0	6.3	5.5	4.1	4.6	5.5	9.1	3.7	3.2	1.8	1.4	0.9	—
19	N	N	N	4.1	5.5	6.9	7.8	10.1	5.9	3.7	4.1	3.2	—
20	6.9	5.5	5.5	5.0	2.3	8.6	5.0	3.2	2.7	2.7	3.2	1.8	—
21	4.6	3.7	3.2	2.7	2.7	3.7	5.0	2.7	2.7	1.8	1.4	0.9	—
22	6.3	6.9	3.7	2.7	4.6	5.0	6.3	5.0	3.2	2.3	0.9	— 1.4	—
23	2.3	1.8	2.3	1.8	1.8	2.7	3.7	2.3	2.7	0.9	1.8	3.7	—
24	2.9	2.5	4.7	3.6	3.6	3.6	6.2	5.1	4.3	2.5	2.5	3.3	—
25	4.7	5.4	4.3	4.0	4.0	3.6	6.2	4.3	2.9	2.5	1.4	1.4	—
26	4.7	4.3	4.7	4.3	4.3	6.2	10.5	4.0	4.0	2.2	2.2	1.4	—
27	7.2	6.5	5.1	5.4	5.1	9.1	6.5	8.3	4.3	4.3	3.3	2.5	—
28	4.0	2.9	2.9	2.9	4.0	3.6	4.0	4.0	3.6	1.4	1.4	1.1	—
29	4.3	5.1	6.2	4.7	8.3	—	8.3	4.0	2.5	1.1	0.7	1.4	—
30	10.5	13.4	9.1	6.9	8.7	8.7	8.3	-	4.3	2.9	1.4	1.8	—
Hourly Means.	7.8	7.2	7.2	5.8	5.3	7.4	7.5	4.3	3.2	1.9	2.1	1.5	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER. 1	0.0	0.0	1.4	0.0	2.7	5.5	5.5	4.1	6.3	10.1	6.9	9.1	4.8
2	0.5	0.5	0.9	0.5	0.0	1.4	5.9	4.1	7.3	11.4	15.1	11.9	4.9
3	— 0.5	— 0.5	1.4	0.9	0.5	2.7	4.1	7.3	5.9	7.3	7.3	5.9	4.4
4	— 1.4	0.5	— 4.6	P N	P N	P N	P N	10.1	5.9	5.0	7.3	5.0	3.3
5	2.7	2.3	2.7	2.3	0.9	2.7	5.0	4.1	4.1	10.5	5.5	9.6	4.0
6	— 0.9	N	4.1	4.1	5.5	20.1	15.6	14.6	10.1	8.3	10.5	13.7	7.3
7	2.3	1.8	1.8	2.3	1.4	0.5	3.2	4.1	7.3	11.4	9.1	7.8	4.8
8	1.4	2.3	3.7	2.3	1.8	4.1	6.9	8.6	12.8	12.4	13.7	12.4	5.9
9	1.4	1.8	1.8	1.8	2.3	1.8	4.6	9.1	11.0	14.2	15.6	16.9	6.7
10	1.8	1.8	0.9	2.7	4.6	5.5	8.3	17.9	15.1	12.8	9.6	8.3	9.5
11	3.2	2.7	3.7	4.1	4.6	6.3	6.9	12.4	16.0	8.6	10.1	8.6	7.4
12	2.3	1.8	2.7	3.2	3.7	5.5	6.9	8.6	10.5	12.4	10.1	8.3	6.2
13	— 2.3	1.4	— 6.9	3.2	4.1	4.6	2.7	2.7	4.6	3.2	5.5	5.0	3.8
14	2.3	16.9	— 4.1	5.5	3.7	4.6	5.5	6.3	5.5	5.9	5.5	9.1	4.9
15	2.3	0.0	4.6	4.6	8.6	11.4	10.5	9.6	10.5	14.6	14.2	11.0	8.0
16	2.3	0.9	1.8	4.6	1.4	4.1	5.5	5.0	6.9	14.2	21.5	22.4	6.8
17	0.5	1.4	4.1	3.7	3.7	4.1	5.5	6.3	5.5	4.6	5.5	4.6	5.6
18	0.5	1.4	0.9	2.7	3.7	5.0	4.1	5.5	5.5	4.6	4.1	— 3.7	3.6
19	1.8	2.3	3.7	4.1	5.0	6.3	7.3	5.5	5.9	11.9	6.9	6.3	5.6
20	— 1.4	0.0	0.0	2.7	2.7	4.1	11.0	4.6	4.6	3.2	3.2	3.2	3.8
21	1.4	1.4	4.1	— 6.9	5.5	24.7	0.0	0.5	— 0.5	— 0.9	4.1	5.9	3.1
22	1.8	2.3	— 0.9	N	N	N	— 6.4	0.0	0.0	1.8	2.7	2.3	2.3
23	2.9	2.9	2.5	2.9	4.3	3.3	4.7	4.7	4.0	3.6	2.2	N	2.9
24	2.9	2.9	1.4	1.8	3.6	4.7	3.3	6.2	6.9	4.3	4.7	4.7	3.8
25	0.4	— 2.9	— 1.1	1.8	1.8	-	—	4.7	5.1	3.6	4.0	3.3	3.0
26	0.7	1.4	0.7	2.2	2.9	3.6	5.4	4.7	6.2	5.1	7.6	5.8	4.1
27	1.8	2.2	0.7	2.2	—	3.6	5.4	4.0	4.3	3.6	3.3	2.9	4.4
28	1.1	1.8	1.4	2.5	1.8	2.5	4.7	4.3	5.1	5.8	8.3	6.2	3.4
29	1.1	P N	P N	P N	P N	4.0	4.7	8.7	9.4	10.9	12.7	10.1	5.7
30	0.7	1.1	— 0.7	—	—	4.3	6.9	13.4	13.8	7.6	6.9	7.2	6.5
Hourly Means	1.1	1.9	1.1	2.4	3.2	5.6	5.5	6.7	7.2	7.7	8.1	7.7	4.98

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BAROMETRIC PRESSURE.

BAROMETER AT 0°.C = 750 MILLIMETRES + THE NUMBERS IN THE TABLE.

DECEMBER. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	7.44	7.01	6.75	6.68	6.76	7.45	7.82	8.11	8.23	8.05	7.75	7.18	—
2	7.29	7.10	7.16	7.00	7.40	7.84	8.25	8.72	8.97	8.94	8.49	8.09	—
3	8.54	8.25	8.06	8.25	8.31	9.52	10.01	10.09	10.12	10.08	9.70	9.32	—
4	9.45	9.20	8.83	8.79	8.90	9.40	9.81	9.96	9.86	9.54	9.33	8.56	—
5	8.51	7.88	7.69	7.72	7.94	8.45	8.96	9.33	9.29	9.12	8.70	8.06	—
6	8.31	7.85	7.65	7.74	7.99	8.37	8.92	9.20	9.18	8.98	8.58	8.12	—
7	8.99	8.66	8.54	8.20	8.46	8.98	9.69	10.10	10.20	9.95	9.53	8.95	—
8	8.62	8.49	8.20	7.93	8.20	8.50	8.89	9.25	9.62	9.62	9.42	8.70	—
9	7.19	6.95	6.81	6.71	6.83	7.19	7.66	7.88	7.94	7.65	7.06	6.80	—
10	6.68	6.40	6.13	6.01	6.24	6.35	6.95	7.40	7.69	7.57	6.95	6.65	—
11	6.96	6.83	6.85	6.86	7.02	7.59	7.87	8.26	8.64	8.30	7.65	7.46	—
12	7.41	6.91	6.88	6.99	7.19	7.50	7.86	8.13	8.13	7.90	7.58	7.15	—
13	7.85	7.70	7.41	7.16	7.42	7.59	8.04	8.26	8.30	7.94	7.79	7.43	—
14	6.83	6.94	6.85	6.96	7.53	8.10	8.92	9.20	9.50	9.17	8.36	7.84	—
15	7.21	6.70	6.65	6.57	6.67	7.34	7.94	8.20	8.26	8.08	7.44	6.98	—
16	7.18	6.74	6.35	6.22	6.54	6.91	7.00	7.73	7.71	7.57	7.18	6.70	—
17	7.05	6.38	6.35	6.28	6.44	6.81	7.35	7.73	7.89	7.75	7.44	6.84	—
18	6.80	6.43	6.19	6.01	6.38	7.13	7.53	8.06	8.35	8.21	7.84	7.22	—
19	7.65	7.61	7.10	7.12	7.29	7.96	8.16	8.46	8.84	9.08	8.38	8.31	—
20	8.26	8.07	7.77	7.37	7.47	7.43	7.88	8.19	8.19	7.86	7.72	7.31	—
21	7.51	7.14	6.90	6.91	7.67	8.04	8.49	8.78	9.19	8.78	8.95	8.68	—
22	8.11	7.64	7.52	7.59	8.01	8.35	8.92	9.09	9.09	8.81	8.53	7.89	—
23	8.16	7.94	7.62	7.53	7.81	8.37	8.97	9.46	9.52	9.35	9.15	8.59	—
24	8.35	8.09	7.71	7.84	8.17	8.65	9.05	9.27	9.31	9.24	8.79	8.33	—
25	8.29	7.95	7.67	7.84	8.14	8.86	9.22	9.50	9.27	9.06	8.73	8.52	—
26	8.29	8.20	8.41	8.29	8.40	9.17	9.57	9.79	9.80	9.39	9.05	8.34	—
27	7.89	7.93	7.98	8.11	8.56	8.94	9.29	9.51	9.43	9.00	8.30	7.66	—
28	8.38	8.11	7.99	8.07	8.41	9.02	9.49	9.56	9.29	8.82	8.41	7.85	—
29	8.07	7.79	7.63	7.61	7.88	8.51	9.07	9.40	9.09	8.63	7.64	6.99	—
30	7.26	7.00	6.81	6.85	7.07	7.81	8.16	8.21	8.19	7.66	7.18	6.37	—
31	6.20	5.99	5.91	5.94	6.21	6.80	7.09	7.23	7.38	7.18	6.64	5.97	—
Hourly Means.	7.77	7.48	7.30	7.26	7.53	8.03	8.48	8.78	8.85	8.62	8.20	7.71	—

DECEMBER. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	6.44	5.47	5.05	4.68	5.23	6.06	6.40	6.88	7.68	7.58	7.62	7.43	6.91
2	7.25	6.27	6.40	6.46	6.70	7.43	7.96	8.66	9.07	9.30	9.38	8.95	7.88
3	9.15	8.57	8.11	7.83	8.31	8.55	8.97	9.35	9.88	9.85	9.84	9.53	9.09
4	7.65	6.78	6.43	6.33	6.83	7.37	7.96	8.85	9.11	8.94	9.18	8.81	8.58
5	7.15	6.46	5.89	5.81	5.83	6.55	7.28	8.00	8.62	8.82	8.80	8.59	7.89
6	7.63	7.23	6.83	6.71	6.74	7.35	7.88	8.58	9.22	9.28	9.53	9.62	8.23
7	8.31	7.78	7.37	7.58	7.81	7.79	8.60	9.23	9.69	9.80	9.58	9.49	8.89
8	7.69	6.93	6.22	6.08	6.35	6.66	7.28	8.04	8.45	8.48	8.30	7.91	8.08
9	6.11	5.22	4.72	4.77	5.09	5.68	6.12	6.78	7.26	7.29	7.47	6.84	6.67
10	6.02	5.25	5.27	5.56	5.69	6.21	6.86	7.64	8.02	8.05	7.84	7.45	6.70
11	6.98	6.28	6.46	6.10	6.48	7.11	7.54	8.03	8.46	8.53	8.05	7.66	7.42
12	6.56	5.88	6.45	6.01	6.54	7.10	7.85	8.81	8.98	8.68	8.39	8.04	7.46
13	6.86	6.03	5.53	6.00	6.18	6.44	6.98	7.11	7.49	7.73	7.75	7.54	7.27
14	7.21	6.54	6.22	5.88	6.28	6.86	7.44	7.42	7.99	8.26	8.04	7.50	7.58
15	6.37	5.85	5.29	5.16	5.85	6.39	7.12	7.23	7.77	8.10	7.83	7.71	7.03
16	6.11	5.38	5.21	4.83	4.90	5.57	6.09	6.90	7.47	7.61	7.76	7.39	6.63
17	6.22	5.56	5.26	4.93	5.28	5.78	6.43	6.80	7.39	7.41	7.55	7.18	6.67
18	6.99	6.75	5.79	5.74	6.03	6.73	7.34	8.04	8.48	8.60	8.46	8.29	7.22
19	7.41	6.85	6.78	7.35	7.36	7.98	8.69	8.95	9.87	9.92	9.44	8.85	8.14
20	6.59	6.13	5.77	6.06	6.37	6.83	7.28	7.96	8.40	8.68	8.88	8.24	7.53
21	7.62	7.06	6.38	6.33	6.65	7.09	7.59	8.19	8.48	8.83	8.81	8.60	7.86
22	6.88	6.18	6.18	5.87	5.93	6.64	7.18	7.66	7.90	8.18	8.95	8.79	7.75
23	7.88	6.86	6.35	6.35	6.77	7.35	7.61	7.78	8.38	8.14	8.38	8.60	8.04
24	7.66	6.88	6.10	5.67	6.18	6.75	7.22	7.87	8.53	8.69	8.74	8.83	8.00
25	7.92	7.27	6.90	7.17	7.45	7.76	7.97	8.30	8.88	9.17	8.85	8.70	8.31
26	7.46	6.86	6.45	6.23	6.40	7.12	7.56	8.00	8.32	8.58	8.65	8.24	8.19
27	7.01	6.22	5.82	5.62	6.18	6.61	7.42	8.11	8.48	8.74	8.75	8.72	7.93
28	7.01	6.21	5.95	5.81	6.03	6.81	7.43	7.91	8.47	8.61	8.65	8.39	7.95
29	6.27	5.38	4.64	4.69	5.42	5.98	6.68	7.55	7.81	7.86	7.90	7.89	7.35
30	5.53	4.86	4.17	4.31	4.68	5.35	6.08	6.55	7.26	7.47	7.15	6.70	6.61
31	5.27	4.58	4.19	4.07	4.57	5.24	5.80	6.60	6.91	7.19	7.12	6.74	6.12
Hourly Means.	7.01	6.31	5.94	5.87	6.20	6.75	7.31	7.86	8.35	8.46	8.44	8.17	7.61

STANDARD THERMOMETER.

DECEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	75.6	75.0	74.2	73.7	73.1	73.1	75.3	80.0	83.5	86.0	88.0	90.1	—
2	75.5	74.0	73.2	72.2	71.8	72.3	73.2	78.2	81.5	83.3	87.0	86.7	—
3	74.1	74.1	73.5	73.1	72.9	73.2	75.2	78.0	82.0	84.2	86.3	87.0	—
4	75.7	75.7	75.2	74.9	75.0	75.0	76.3	79.6	82.1	84.5	86.1	86.6	—
5	77.5	77.1	76.5	76.3	76.0	75.7	76.6	78.1	81.7	83.2	87.3	87.5	—
6	76.3	75.3	74.8	74.0	73.3	73.0	75.0	78.9	83.8	85.8	86.6	88.0	—
7	75.5	75.7	75.3	74.5	74.0	74.0	75.0	77.4	80.3	82.9	85.7	85.1	—
8	76.0	75.6	75.1	75.0	74.8	75.0	76.8	78.2	78.0	77.0	77.6	78.5	—
9	75.0	74.8	75.0	74.6	74.2	74.2	75.0	76.2	78.2	81.0	82.0	82.5	—
10	75.8	75.5	75.0	75.0	74.6	74.4	75.0	77.9	81.1	83.8	86.9	89.0	—
11	75.1	74.9	74.2	74.4	74.2	74.4	75.0	77.1	79.9	82.0	84.0	84.4	—
12	74.5	74.3	74.1	74.0	74.0	74.0	74.8	76.0	78.2	81.1	83.1	84.1	—
13	75.0	74.6	74.2	74.0	74.0	74.0	75.0	77.0	79.1	81.3	83.8	83.5	—
14	76.5	75.7	75.7	75.7	75.3	74.4	73.6	73.6	74.2	75.0	76.7	78.4	—
15	75.7	75.3	75.3	74.9	74.5	74.6	76.2	77.8	81.0	82.4	84.2	85.8	—
16	77.4	77.4	77.2	77.0	76.7	76.7	77.2	79.1	81.0	82.8	84.7	85.7	—
17	76.6	76.0	76.0	75.8	75.6	75.8	76.6	78.4	79.8	79.0	80.8	80.7	—
18	76.2	76.2	75.8	74.8	75.5	75.2	76.0	77.2	79.7	81.1	83.0	85.1	—
19	75.8	75.3	75.0	74.6	74.0	74.0	76.1	78.8	80.6	81.5	83.0	77.6	—
20	73.0	73.0	73.0	73.1	73.1	73.0	74.0	75.7	77.4	80.1	81.7	83.0	—
21	75.5	75.1	75.8	75.4	75.0	74.9	76.0	78.1	80.3	83.5	84.8	82.3	—
22	73.9	73.5	73.1	72.9	72.4	72.0	73.9	75.7	77.4	79.7	82.4	84.8	—
23	73.7	72.8	72.5	71.9	71.5	71.9	73.1	76.3	77.7	79.2	81.4	83.2	—
24	75.7	74.6	73.9	73.3	72.9	72.7	73.4	76.3	79.2	82.8	84.5	86.7	—
25	74.7	73.8	73.2	72.2	72.0	72.0	72.8	74.8	78.2	80.0	83.7	86.4	—
26	74.7	73.9	73.1	72.5	72.9	72.0	73.2	78.0	80.3	83.0	84.6	86.6	—
27	75.6	75.0	74.0	73.0	72.5	72.7	74.9	76.8	80.6	83.2	85.2	87.3	—
28	74.8	74.0	73.7	73.0	72.6	72.6	74.3	78.0	81.2	84.3	86.3	87.2	—
29	76.2	75.5	74.8	74.4	74.1	73.7	74.0	76.6	80.0	83.0	85.0	87.2	—
30	75.6	75.0	74.2	73.5	72.9	72.5	73.6	77.1	80.2	83.3	84.7	88.3	—
31	75.9	75.6	75.4	74.4	74.0	73.3	74.1	76.7	79.1	82.0	84.7	87.0	—
Hourly Means.	75.45	74.98	74.58	74.13	73.85	73.75	74.88	77.34	79.91	82.00	84.06	85.04	—

DECEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	91.1	91.0	89.2	89.0	87.0	85.0	82.8	81.2	80.6	79.6	79.0	76.7	81.66
2	86.2	85.3	83.9	78.2	79.4	79.0	77.8	76.4	76.0	75.9	75.3	74.8	78.21
3	79.7	80.5	81.1	81.9	81.0	80.3	79.5	78.7	78.3	77.5	77.0	76.3	78.56
4	89.0	91.0	87.2	86.0	86.0	83.6	82.0	81.1	80.1	79.2	78.6	77.9	81.18
5	89.5	90.2	90.4	87.8	88.3	86.3	84.6	83.0	81.4	79.5	78.0	77.8	82.10
6	87.0	85.5	81.9	83.1	82.0	82.0	81.2	79.8	78.5	77.2	76.3	76.0	79.80
7	84.9	84.2	84.2	79.7	78.8	79.1	78.2	78.1	78.1	77.7	77.1	76.5	78.83
8	79.2	80.2	79.3	79.5	79.1	78.4	78.0	77.5	77.1	76.4	76.2	75.6	77.25
9	84.4	85.8	85.2	83.0	81.3	79.3	78.9	78.3	77.9	77.3	76.8	76.2	78.63
10	88.2	87.7	82.4	78.1	78.1	77.8	77.5	77.4	76.2	76.0	75.6	75.6	78.94
11	83.5	82.3	76.5	77.9	77.9	76.7	76.0	75.6	75.4	75.0	74.5	74.5	77.31
12	85.0	86.5	77.0	77.1	76.5	75.5	75.2	75.0	75.2	75.2	75.0	75.0	77.10
13	82.5	82.9	83.1	82.0	80.6	80.0	79.1	78.5	78.0	77.4	77.0	76.8	78.48
14	80.0	80.9	81.2	79.6	79.4	79.0	78.4	77.7	77.2	76.9	76.3	76.0	76.98
15	87.0	87.3	87.3	87.0	85.0	82.3	81.0	80.2	79.4	78.7	78.3	78.0	80.38
16	86.7	86.9	83.3	85.0	82.5	81.1	80.1	79.8	78.6	77.7	77.2	77.0	80.37
17	82.0	83.3	82.1	82.0	82.5	81.2	80.2	79.4	79.0	78.2	77.4	77.0	78.98
18	79.5	75.3	77.3	78.3	79.0	79.0	78.3	77.9	77.4	77.0	76.6	76.0	77.81
19	77.0	75.0	76.0	75.9	75.8	75.6	75.1	74.7	74.0	73.5	73.3	73.1	76.05
20	84.8	85.2	84.5	82.3	81.5	80.0	79.0	78.1	77.6	77.0	76.8	76.4	78.05
21	82.7	82.0	81.0	81.1	80.6	79.4	78.0	77.1	76.3	75.9	75.0	74.2	78.33
22	86.4	84.7	80.7	77.0	78.4	78.4	77.5	76.8	76.2	75.6	75.0	74.4	77.20
23	82.4	82.8	83.7	82.9	82.0	80.0	79.2	78.1	77.5	76.6	76.4	76.2	77.63
24	88.0	89.0	89.5	90.0	88.4	85.2	82.8	80.8	79.2	78.0	77.0	76.0	80.41
25	87.2	83.0	85.3	82.6	82.2	80.6	79.5	78.2	76.9	76.2	77.3	76.2	78.29
26	88.4	90.1	90.9	89.4	88.2	86.1	83.2	81.0	79.5	78.1	77.1	76.0	80.53
27	88.0	88.6	89.3	88.4	87.0	84.3	81.6	80.0	79.0	78.1	76.6	75.8	80.31
28	88.4	88.2	86.8	85.6	84.8	83.0	81.1	80.0	78.9	78.0	77.2	76.7	80.03
29	87.6	90.2	89.0	87.2	82.4	81.9	80.5	79.2	78.0	77.4	76.4	76.0	80.01
30	88.8	90.2	89.4	88.4	85.8	83.2	81.2	80.0	79.0	78.0	76.8	76.2	80.33
31	89.0	88.0	82.1	84.0	80.1	80.9	79.7	78.3	77.9	77.1	76.7	76.3	79.26
Hourly Means.	85.29	85.28	83.90	82.90	81.99	80.78	79.59	78.64	77.88	77.16	76.57	76.04	79.00

RELATIVE HUMIDITY OF THE AIR.

SATURATION = 1000.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER.	1	815	846	861	877	886	876	832	722	620	568	537	498	—
	2	823	861	868	884	891	883	868	753	671	580	508	577	—
	3	887	870	894	911	902	903	880	812	736	668	631	616	—
	4	872	889	905	922	914	914	850	765	709	631	569	583	—
	5	819	843	857	874	890	889	874	821	700	665	539	581	—
	6	881	888	879	887	911	919	863	756	628	605	566	583	—
	7	889	880	922	939	938	938	914	867	753	676	604	659	—
	8	899	889	905	914	913	905	874	861	844	866	875	814	—
	9	880	879	880	888	887	904	880	849	807	769	736	688	—
	10	848	848	863	863	879	879	897	806	691	660	555	542	—
	11	905	913	921	930	904	904	811	828	766	708	648	643	—
	12	956	956	956	956	956	956	939	915	877	777	719	736	—
	13	974	947	956	956	956	956	939	916	838	770	720	754	—
	14	866	881	889	807	905	879	911	911	896	897	834	830	—
	15	915	922	922	922	913	913	890	860	762	731	715	668	—
	16	867	867	859	867	883	874	851	809	762	690	637	641	—
	17	899	906	915	923	931	923	850	821	787	847	753	753	—
	18	825	825	832	871	856	880	864	851	802	769	731	684	—
	19	957	914	956	956	965	956	932	854	819	799	760	924	—
	20	955	955	955	937	937	946	896	864	819	759	728	712	—
	21	914	905	872	889	905	913	906	853	804	720	670	709	—
	22	912	920	929	929	946	936	938	905	867	751	723	665	—
	23	887	920	910	936	945	936	920	874	876	832	791	711	—
	24	905	922	930	946	946	946	946	882	735	683	624	542	—
	25	871	887	894	901	909	909	876	830	799	730	627	582	—
	26	862	877	911	902	876	901	894	799	746	651	574	495	—
	27	855	847	878	894	910	902	871	834	716	677	603	593	—
	28	846	887	903	910	919	919	904	828	748	656	631	597	—
	29	817	823	863	878	895	903	895	810	744	663	645	586	—
	30	824	839	845	869	902	902	903	811	737	632	582	555	—
	31	824	832	831	870	869	886	870	818	757	686	606	546	—
Hourly Means.		879	885	896	903	911	911	888	835	768	713	659	647	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
DECEMBER.	1	497	513	509	537	537	600	668	676	752	786	755	817	691
	2	656	711	693	798	870	847	852	850	873	864	864	871	788
	3	855	796	761	742	761	781	794	807	799	820	843	865	806
	4	542	506	604	636	531	588	658	697	729	756	783	790	723
	5	516	493	488	624	566	600	616	643	712	772	836	852	711
	6	645	718	858	774	728	771	712	743	783	827	833	856	776
	7	665	681	694	863	862	854	893	901	884	876	883	882	830
	8	778	744	741	734	748	783	790	805	827	850	849	872	837
	9	616	616	659	670	734	720	792	806	805	819	842	856	791
	10	549	552	736	884	925	933	925	925	890	881	905	880	805
	11	698	729	874	942	933	916	923	923	939	930	939	947	857
	12	711	626	891	883	857	914	966	965	966	974	974	965	891
	13	744	745	684	693	745	765	778	799	821	844	851	851	833
	14	802	767	790	779	801	823	837	867	883	874	890	906	855
	15	652	622	629	633	665	688	733	759	802	831	837	836	784
	16	627	584	739	724	730	776	803	795	814	844	851	866	782
	17	672	644	687	666	647	663	715	720	726	783	812	804	785
	18	847	939	941	917	909	933	933	942	932	941	948	948	872
	19	932	947	923	931	931	966	974	956	947	965	973	964	925
	20	683	691	695	743	756	780	793	821	835	866	947	899	832
	21	702	700	732	747	767	801	821	834	865	864	897	904	821
	22	650	744	819	875	908	869	892	907	906	889	914	913	863
	23	779	780	719	738	750	825	847	885	907	940	940	932	858
	24	542	512	503	535	476	546	602	647	704	751	795	824	727
	25	598	731	672	838	686	666	727	768	810	825	765	801	779
	26	512	493	475	504	566	643	677	732	764	790	811	840	721
	27	549	541	532	522	544	585	657	693	718	760	809	832	722
	28	561	566	614	640	611	635	683	707	732	782	804	787	745
	29	587	507	544	567	695	707	701	733	767	765	809	824	739
	30	558	536	543	521	571	610	669	679	754	790	826	825	720
	31	559	589	837	673	856	754	742	806	797	811	817	833	770
Hourly Means.		654	656	696	720	731	753	780	800	821	841	858	866	795

DIRECTION OF THE WIND.

DECEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12
1	S W	C	C	C	C	C	S W	S W	W	N	N	W N W
2	C	C	C	C	C	C	C	W S W	W S W	W S W	N W	N
3	C	C	C	C	C	C	C	W S W	W	W N W	W N W	W N W
4	W	W	C	C	C	C	W	W	W	W S W	W N W	N W
5	C	C	C	C	C	C	W	W	W N W	W	W S W	W S W
6	C	C	C	C	C	C	W N W	W S W	S S W	W S W	N W	N
7	C	C	C	N N W	C	C	N N W	N N W	N	N	N W	N
8	C	C	C	C	C	N W	N W	W N W	W	W N W	N W	W N W
9	C	W N W	W N W	W	W	W	W	W	W S W	W	W	W N W
10	W	W	W N W	W	W	W	W	W	W	S W	W	W N W
11	C	C	C	C	N	N N W	N W	N W	W	N W	W N W	N W
12	C	C	C	C	C	C	W	C	W	W	W N W	W
13	C	N	C	C	C	C	N	N N W	W N W	W	W	W S W
14	S W	S W	S W	S W	S W	W S W	W S W	W S W	W S W	W S W	S W	W S W
15	W	W	W	W	W	W	W	W	W	W	W	W
16	W S W	W S W	W S W	W S W	W S W	W S W	W S W	W	W	W N W	W N W	W N W
17	C	W S W	C	C	C	W S W	W	W N W	W	N N W	W N W	W N W
18	W	W	W	W	W	W	W S W	W S W	W S W	W S W	W	W S W
19	C	C	C	C	C	N	N	N	N	N	S W	S S E
20	S	S	S S W	S S W	S W	S W	S W	W S W	W S W	W S W	W	W
21	W S W	W S W	W S W	W S W	W S W	W S W	W S W	W	W	W	N W	W
22	C	C	W	C	C	C	W	W	W	W	W	N W
23	C	C	C	C	C	C	N W	W N W	N W	N W	N W	N W
24	C	C	C	C	C	N W	N W	N W	W S W	W	W S W	W
25	C	C	C	W N W	C	W N W	W N W	W N W	W	W S W	S W	S W
26	C	C	C	S S W	S S W	C	S S W	S	S W	W	W N W	W N W
27	C	C	C	S S W	C	C	S S W	S S W	W	W N W	N W	S W
28	C	C	C	C	C	W S W	W S W	W S W	W S W	W	S W	W
29	W	W	W	C	C	C	W	W S W	W S W	S W	W	N W
30	W	C	C	C	C	W	W	W	W S W	W S W	W	W
31	W	W	W	W	W	W	W	W	W	W	W N W	W S W

DECEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12
1	N W	N W	N W	N W	W N W	W N W	W N W	W N W	W S W	W S W	C	C
2	N N E	N N E	N W	C	C	C	C	C	C	C	C	C
3	W	W S W	W	W	W	W	W	W	C	C	C	C
4	W	W N W	W N W	W N W	W	W	W	W	W	W	C	C
5	W N W	W	N W	N	N W	W N W	W N W	C	C	C	C	C
6	N	N	N	N N W	N N W	C	N N W	N N W	C	C	C	C
7	N	N	N	W	N W	N W	C	C	C	C	C	C
8	W	W	W	W	W N W	W N W	W N W	W N W	W N W	W N W	W N W	W N W
9	N W	N W	N W	N W	N W	W	W	W	W	W	W	W
10	W N W	N W	S	N N W	C	N	N	N	C	C	C	C
11	N W	N	S W	W N W	C	C	C	C	W	W	W	C
12	N W	W N W	N	N	N	N	N	N	C	C	C	N
13	W	W S W	W S W	W S W	S W	W S W	W S W	W S W	W S W	W S W	W S W	W S W
14	W	W S W	W S W	W S W	W N W	W N W	W	W	W	W	W	W
15	W S W	W	W	W	W	W S W	W S W	W S W	W S W	W S W	W S W	W S W
16	W N W	W N W	S W	W S W	S W	W S W	W S W	W S W	W S W	W S W	W S W	W S W
17	W N W	W	W N W	W	W N W	W S W	W	W	W	W	W	W
18	N	N	N	N	N	C	N	N	N	C	N	N
19	S S E	S S E	S S E	S S E	C	S S E	S S E	S	C	C	S	S
20	W	W	W	W S W	W S W	W S W	W S W	W S W	W S W	W S W	W S W	W S W
21	W	W	W	W	W	W	W	W	W	W	C	W
22	N W	N N W	W S W	N W	N W	N W	C	C	N W	N W	C	C
23	N W	N	N N W	N N W	N N W	N N W	N W	C	C	C	C	N W
24	W	N W	W N W	W	W	W N W	W N W	W N W	W N W	W N W	W N W	W N W
25	S	N N W	N W	S W	S	S	S	S	C	S	S S W	S S W
26	S W	S S E	S S W	S	S S W	S S W	S S W	S S W	S S W	S S W	S S W	S S W
27	W	W	W	W	W S W	W S W	W S W	W S W	W S W	W S W	W S W	C
28	W	W N W	W N W	W N W	W N W	W	W	W	W	W	W S W	W
29	N W	W	W N W	W	W	W	W	W	W	W	W	C
30	W N W	N W	W	W	W	W	W	W	W	W	W	W
31	W	S S W	S S W	S W	S W	S W	S W	S W	S W	S W	S W	S W

VELOCITY OF THE WIND IN KILOMETERS PER HOUR.

DECEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0.8	0.0	0.0	0.0	0.0	0.0	2.4	2.4	3.2	4.0	4.8	5.6	—
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	4.8	9.7	—
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.6	8.0	7.2	8.0	—
4	0.8	0.8	0.0	0.0	0.0	0.0	2.4	7.2	8.0	6.4	4.0	7.2	—
5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	4.0	7.2	6.4	—
6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	7.2	9.7	3.2	6.4	5.6	—
7	0.0	0.0	0.0	0.8	0.0	0.0	0.8	0.8	4.0	5.6	7.2	8.9	—
8	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	6.4	7.2	5.6	6.4	—
9	0.0	1.6	4.8	4.8	4.0	3.2	1.6	4.0	5.6	6.4	8.0	9.7	—
10	1.6	1.6	2.4	3.2	3.2	1.6	3.2	4.8	6.4	7.2	8.0	8.0	—
11	0.0	0.0	0.0	0.0	0.8	1.6	2.4	3.2	4.8	6.4	7.2	8.9	—
12	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.4	5.6	8.0	7.2	—
13	0.0	0.8	0.0	0.0	0.0	0.0	0.8	3.2	6.4	8.9	9.7	8.0	—
14	5.6	3.2	1.6	1.6	3.2	4.8	5.6	4.0	7.2	4.8	7.2	6.4	—
15	0.8	1.6	1.6	1.6	1.6	1.6	2.4	5.6	8.0	11.3	10.5	8.9	—
16	1.6	2.4	2.4	0.8	0.8	2.4	3.2	4.8	8.0	13.7	16.9	16.1	—
17	0.0	0.8	0.0	0.0	0.0	1.6	5.6	4.8	6.4	6.4	12.1	12.1	—
18	1.6	1.6	0.8	0.8	2.4	1.6	1.6	2.4	4.0	4.0	6.4	7.2	—
19	0.0	0.0	0.0	0.0	0.0	0.8	2.4	1.6	1.6	3.2	8.9	4.8	—
20	1.6	4.8	6.4	3.2	3.2	4.0	3.2	3.2	4.8	7.2	7.2	9.7	—
21	0.8	3.2	4.0	3.2	2.4	1.6	4.0	7.2	8.9	9.7	16.1	9.7	—
22	0.0	0.0	0.8	0.0	0.0	0.0	1.6	3.2	1.6	4.0	6.4	7.2	—
23	0.0	0.0	0.0	0.0	0.0	0.0	1.6	7.2	5.6	6.4	9.7	10.5	—
24	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	4.8	7.2	8.0	8.9	—
25	0.0	0.0	0.0	0.8	0.0	1.6	2.4	4.0	5.6	4.8	4.8	7.2	—
26	0.0	0.0	0.0	1.6	0.8	0.0	1.6	9.7	4.8	4.8	4.8	4.8	—
27	0.0	0.0	0.0	0.8	0.0	0.0	3.2	5.6	6.4	6.4	6.4	7.2	—
28	0.0	0.0	0.0	0.0	0.0	0.8	3.2	7.2	8.9	8.9	8.9	9.7	—
29	1.6	1.6	0.8	0.0	0.0	0.0	1.6	6.4	8.0	6.4	4.0	8.0	—
30	0.8	0.0	0.0	0.0	0.0	0.8	1.6	4.8	5.6	6.4	5.6	4.8	—
31	1.6	1.6	2.4	1.6	0.8	0.8	0.8	3.2	3.2	4.8	4.8	4.8	—
Hourly Means.	0.62	0.83	0.90	0.80	0.75	0.98	2.06	4.05	5.45	6.26	7.64	7.99	—

DECEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	9.7	9.7	6.4	4.0	2.4	0.8	0.8	2.4	0.8	1.6	0.0	0.0	2.58
2	12.1	11.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.95
3	6.4	6.4	5.6	4.0	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0	2.37
4	8.0	10.5	10.5	4.8	8.0	5.6	3.2	1.6	1.6	0.8	0.0	0.0	3.81
5	7.2	7.2	9.7	9.7	4.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	2.58
6	6.4	4.8	8.9	8.0	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0	2.71
7	9.7	9.7	5.6	4.8	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.58
8	8.9	8.9	6.4	5.6	6.4	4.8	2.4	0.8	0.8	0.8	0.8	0.8	3.24
9	13.7	14.5	10.5	10.5	8.0	3.2	1.6	0.8	3.2	0.8	3.2	2.4	5.25
10	8.0	9.7	7.2	4.8	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	3.47
11	9.7	11.3	4.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	1.6	0.0	2.71
12	8.0	9.7	8.0	3.2	3.2	1.6	0.8	0.8	0.0	0.0	0.0	0.8	2.50
13	8.0	8.9	11.3	8.0	6.4	4.0	3.2	2.4	1.6	0.8	1.6	4.8	4.12
14	7.2	6.4	8.9	6.4	4.8	4.0	3.2	1.6	1.6	1.6	1.6	1.6	4.34
15	9.7	10.5	8.0	8.0	8.0	6.4	4.8	4.8	3.2	1.6	6.4	3.2	5.42
16	14.5	15.3	10.5	9.7	6.4	3.2	1.6	2.4	4.8	1.6	1.6	1.6	6.10
17	16.1	14.5	12.9	11.3	12.9	8.9	6.4	3.2	1.6	1.6	1.6	1.6	5.93
18	5.6	4.8	0.8	1.6	1.6	0.0	1.6	1.6	1.6	0.0	0.8	0.8	2.30
19	3.2	1.6	1.6	0.8	0.0	2.4	1.6	1.6	0.0	0.0	1.6	3.2	1.70
20	8.0	8.0	8.9	6.4	6.4	4.8	5.6	3.2	2.4	0.8	1.6	1.6	4.84
21	9.7	7.2	6.4	4.8	4.8	4.8	1.6	1.6	1.6	1.6	0.0	0.8	4.82
22	9.7	10.5	8.0	6.4	1.6	1.6	0.0	0.0	0.8	0.8	0.0	0.0	2.68
23	8.0	8.9	9.7	11.3	10.5	8.0	1.6	0.0	0.0	0.0	0.0	2.4	4.23
24	8.0	8.0	9.7	8.0	7.2	2.4	0.8	1.6	0.8	1.6	0.8	0.8	3.41
25	6.4	6.4	6.4	8.0	14.5	12.9	5.6	0.8	0.0	3.2	8.0	0.8	4.34
26	4.8	7.2	7.2	8.0	4.8	1.6	3.2	2.4	1.6	1.6	1.6	1.6	3.27
27	8.9	8.0	9.7	8.0	8.0	4.0	6.4	4.8	2.4	0.8	0.8	0.0	4.08
28	10.5	12.1	9.7	11.3	12.1	7.2	6.4	4.8	2.4	3.2	3.2	4.0	5.60
29	8.9	10.5	9.7	7.2	6.4	1.6	1.6	0.8	0.8	0.8	0.8	0.0	3.65
30	8.0	11.3	10.5	10.5	8.0	8.0	5.6	6.4	3.2	0.8	0.8	0.8	4.35
31	6.4	6.4	3.2	4.8	0.8	1.6	3.2	1.6	1.6	0.8	1.6	1.6	2.67
Hourly Means.	8.69	9.04	7.84	6.47	5.28	3.44	2.45	1.78	1.26	0.90	1.29	1.14	3.66

CLOUDS.

CLEAR = 0. — OVERCAST = 10.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER.	1	2	2	1	2	3	2	0	0	0	0	0	0	—
	2	0	1	1	0	2	3	5	3	5	7	5	7	—
	3	5	2	1	2	3	10	10	6	5	4	5	5	—
	4	3	7	4	3	6	7	5	5	4	7	9	7	—
	5	10	10	10	10	10	10	9	5	7	7	6	7	—
	6	2	2	1	0	1	2	0	0	0	0	7	7	—
	7	10	10	10	9	9	9	10	8	4	4	7	7	—
	8	10	9	10	10	10	10	10	10	10	10	10	10	—
	9	2	3	3	9	10	9	10	10	9	9	10	10	—
	10	10	10	10	7	10	6	3	7	5	7	4	4	—
	11	10	10	10	10	10	9	8	6	7	6	7	8	—
	12	10	9	10	10	10	9	10	10	10	10	10	9	—
	13	10	10	10	10	10	10	10	10	10	10	10	10	—
	14	9	9	9	7	10	9	10	10	10	10	10	10	—
	15	2	3	5	6	5	4	9	7	7	7	7	6	—
	16	7	9	10	9	9	10	7	6	7	8	8	7	—
	17	10	10	9	9	10	10	10	10	9	10	10	10	—
	18	9	10	6	9	9	10	10	10	10	10	10	10	—
	19	3	3	2	1	3	2	3	3	9	9	10	10	—
	20	10	10	10	10	10	10	10	10	10	9	10	10	—
	21	2	1	3	3	5	6	3	4	2	1	6	10	—
	22	1	0	0	0	2	4	7	7	8	8	6	7	—
	23	0	2	1	3	8	10	10	9	9	10	10	10	—
	24	3	2	1	4	5	5	8	5	3	2	2	6	—
	25	1	0	1	1	7	4	7	7	7	6	4	3	—
	26	2	2	3	1	2	2	1	1	0	0	6	5	—
	27	3	2	2	2	4	6	7	5	5	3	3	4	—
	28	0	1	1	2	3	3	3	3	3	4	4	4	—
	29	6	7	5	3	5	9	10	6	4	2	3	6	—
	30	7	5	5	5	6	6	4	2	3	4	4	3	—
	31	10	6	3	2	4	4	6	4	4	6	5	6	—
Hourly Means.		5.5	5.4	5.1	5.1	6.5	6.8	6.9	6.1	6.0	6.1	6.7	7.0	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
DECEMBER.	1	7	7	7	7	6	2	4	2	2	2	2	1	2.5
	2	6	4	10	10	6	6	6	4	4	3	2	1	4.2
	3	10	10	10	10	10	10	10	10	10	10	10	6	7.3
	4	4	4	4	8	10	8	10	10	10	10	10	10	6.9
	5	8	8	8	9	8	6	8	9	7	6	8	1	7.8
	6	8	6	8	5	9	6	2	1	5	9	10	10	4.2
	7	8	8	7	10	10	8	4	9	7	7	8	9	8.0
	8	10	10	10	10	10	10	10	10	10	10	10	8	9.9
	9	9	9	9	10	10	10	10	10	10	10	10	10	8.8
	10	8	9	10	10	10	10	10	10	10	10	10	10	8.3
	11	9	9	10	10	10	10	10	10	10	10	10	10	9.1
	12	8	8	10	10	10	10	10	10	10	10	10	10	9.7
	13	10	10	10	10	10	10	10	10	10	6	6	8	9.6
	14	10	10	9	10	10	9	4	2	6	4	4	3	8.1
	15	5	2	2	1	2	2	7	4	2	1	1	5	4.3
	16	8	8	7	4	3	9	6	9	7	3	4	10	7.3
	17	10	9	10	10	7	7	5	3	3	9	7	7	8.5
	18	10	10	10	10	10	10	10	10	10	10	10	6	9.5
	19	10	10	10	10	10	10	10	10	10	10	10	10	7.4
	20	9	9	10	10	10	10	10	8	5	4	3	2	8.7
	21	9	9	10	9	9	7	4	3	2	2	1	0	4.6
	22	8	8	10	10	10	7	9	3	3	2	5	2	5.3
	23	9	6	6	3	5	5	2	3	7	4	4	3	5.8
	24	8	7	4	4	3	3	2	0	0	0	1	3	3.4
	25	8	10	10	9	10	9	2	2	1	2	4	1	4.8
	26	4	4	7	8	7	4	2	2	1	1	3	4	3.0
	27	7	8	6	6	5	1	1	2	2	3	2	2	3.8
	28	5	3	7	10	10	10	10	10	10	10	10	10	5.7
	29	4	4	7	7	10	8	3	2	2	3	3	4	5.1
	30	7	2	2	1	5	4	4	3	1	1	2	3	3.7
	31	7	8	9	10	10	6	2	3	5	4	3	2	5.3
Hourly Means.		7.8	7.4	8.0	8.1	8.2	7.3	6.4	5.9	5.9	5.7	5.9	5.5	6.47

DECEMBER.

Mean Batavia Time.	8—8½ A. M.	8½—9	9—9½	9½—10	10—10½	10½—11	11—11½	11½—12	12—12½	12½—1 P. M.	1—1½	1½—2	2—2½	2½—3	3—3½	3½—4	Daily and Monthly Means.
1	10	10	10	10	10	10	10	10	9	9	7	8	5	1	2	2	7.7
2	8	7	1	1	3	8	6	6	7	8	8	6	3	0	0	0	4.5
3	9	10	9	9	9	8	7	7	5	0	1	0	0	0	0	0	4.6
4	3	7	8	6	1	2	3	9	9	9	9	8	7	0	0	0	5.1
5	8	7	1	2	6	9	8	2	4	5	6	2	4	6	8	3	5.1
6	10	10	10	10	8	1	6	5	4	5	1	4	0	1	7	8	5.6
7	9	10	8	7	8	10	7	8	7	5	4	1	1	0	0	0	5.3
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
9	1	0	2	3	1	1	1	0	1	4	8	3	6	7	1	0	2.4
10	8	9	10	7	9	9	10	10	7	2	3	0	0	0	0	0	5.3
11	4	1	4	7	10	2	0	1	2	3	1	0	0	0	0	0	2.2
12	0	0	0	0	1	3	0	3	7	4	5	3	0	0	0	0	1.6
13	0	0	0	0	0	3	9	2	2	0	0	0	0	1	5	1	1.4
14	0	0	0	0	0	0	0	0	1	3	1	1	2	2	0	0	0.6
15	4	10	6	6	8	7	7	8	9	8	10	8	8	9	5	9	7.6
16	2	2	6	3	4	6	5	6	5	5	5	3	2	6	7	7	4.6
17	1	1	2	2	0	0	0	2	3	3	3	6	4	1	1	1	1.9
18	1	1	0	1	1	3	6	7	4	0	0	0	0	0	0	0	1.5
19	10	4	0	0	5	4	0	0	0	0	0	0	0	0	0	0	1.4
20	0	0	2	2	4	0	0	1	7	1	5	1	1	0	0	0	1.5
21	9	8	10	10	10	8	7	1	0	1	1	0	0	0	0	0	4.1
22	3	1	4	6	9	9	9	7	6	8	4	4	3	0	0	0	4.6
23	0	0	1	1	1	6	7	7	6	3	5	5	7	9	4	10	4.5
24	10	10	9	9	10	10	10	10	9	9	9	10	10	10	10	10	9.7
25	2	7	5	6	6	9	10	10	10	6	0	1	4	0	0	1	4.8
26	10	10	10	10	9	9	10	10	10	9	10	9	9	9	2	1	8.6
27	2	6	8	9	9	9	9	7	6	5	6	5	8	8	7	6	6.9
28	10	10	9	9	9	8	9	7	6	8	7	7	9	1	0	0	6.8
29	9	10	10	10	9	9	10	8	7	5	6	9	5	4	1	1	7.1
30	10	10	9	9	9	9	9	9	9	7	9	9	6	10	10	9	8.9
31	9	9	9	9	9	10	10	8	7	5	8	2	1	0	0	0	6.0
Means.	5.2	5.5	5.3	5.3	5.7	5.9	6.0	5.5	5.5	4.5	4.6	3.7	3.4	2.7	2.3	2.2	4.58

BLACK BULB THERMOMETER IN VACUO.

DECEMBER.

Mean Batavia Time.	7h30 A. M.	8	8h30	9	9h30	10	10h30	11	11h30	12	0h30 P. M.	1	1h30	2	2h30	3	3h30	4	4h30
1	44.4	53.9	50.4	52.3	52.8	53.4	53.4	54.9	54.4	57.3	53.9	50.4	49.8	51.9	51.2	37.9	38.9	34.9	33.6
2	36.1	46.6	46.0	47.9	44.5	44.0	50.4	51.4	48.8	54.1	50.6	53.4	53.3	50.4	47.4	32.4		—	26.9
3	32.6	40.4	48.9	49.1	49.6	53.2	54.3	51.2	51.7	47.9	51.8	33.6	37.8	37.0	36.4	35.3	34.4	34.3	30.4
4	41.5	41.8	38.5	50.2	48.0	45.0	45.3	52.3	44.3	48.1	58.4	52.5	53.6	54.9	48.9	47.2	37.9	36.2	35.2
5	35.1	36.8	45.8	44.7	41.8	47.2	53.9	54.4	52.1	43.9	46.2	52.8	53.7	43.8	45.4	51.5	53.0	38.0	35.4
6	43.1	52.9	48.6	50.7	51.7	53.4	51.6	44.4	54.7	53.0	43.6	42.9	35.7	47.8	-	35.9	43.6	31.9	29.9
7	29.8	43.3	43.4	49.9	51.7	49.5	48.6	53.4	48.2	54.9	51.2	46.4	45.6	39.4	37.9	35.4		27.4	26.4
8	33.0	35.9	34.6	32.4	28.6	—	36.1	-	35.4	38.4	38.6	37.9	41.5	39.2	35.4	33.1	34.3	32.1	29.9
9	28.3	31.5	34.0	39.4	40.7	46.8	48.1	45.8	45.4	45.2	47.0	49.7	54.2	47.8	45.6	46.0	39.0	34.6	33.4
10	41.8	46.8	45.2	50.1	50.1	50.4	54.6	52.9	55.3	53.6	51.1	42.9	46.1	37.4	34.5				
11	32.9	37.4	45.7	41.4	43.7	50.9	55.3	45.5	42.1	45.4	42.7	39.9	31.0	36.8	-		-		
12	27.8	31.1	32.8	36.9	39.3	45.4	45.8	47.9	44.0	49.5	49.3	50.3	51.8	40.4	29.4				
13	27.0	30.9	32.6	36.8	39.2	44.4	46.5	49.4	46.3	41.6	40.1	37.3	37.4	39.4	39.4	44.6	35.9	34.1	30.7
14	—	28.4	30.3	32.6	27.7	33.7	34.0	36.4	40.2	40.8	41.4	45.6	41.8	40.4	39.6	35.6	35.9	30.9	30.0
15	29.7	38.8	42.9	49.0	46.9	46.9	51.8	48.6	49.4	51.4	53.5	52.7	50.0	50.4	47.1	45.0	41.6	32.9	32.9
16	31.5	41.8	43.1	44.4	50.4	46.0	48.1	51.3	52.1	51.4	51.7	51.4	51.5	45.8	41.5	43.4	45.1	33.6	31.9
17	29.2	39.4	37.6	38.6	35.4	34.4	32.9	34.9	31.4	40.8	43.4	42.4	41.7	45.4	41.9	27.4	38.9	34.9	32.4
18	28.1	32.9	33.3	37.6	37.2	40.5	40.6	46.6	49.7	50.4	40.2	—	32.4	-	28.5	27.9	29.9	30.4	31.4
19	41.6	46.0	49.1	38.4	37.8	39.0	52.0	40.9	—	—	—	27.4	—		—	—	—	—	—
20	29.3	31.5	32.0	36.7	47.4	45.3	47.7	42.4	41.1	46.3	54.4	47.1	49.7	45.7	41.4	38.1	34.0	32.1	30.7
21	38.2	45.9	43.5	47.9	50.5	52.9	53.8	53.9	52.6	39.9	37.6	42.7	40.3	38.5	37.9	36.4	35.9	33.0	31.4
22	32.6	33.9	34.8	36.7	38.9	43.9	47.9	50.4	54.6	46.9	47.4	48.9	41.9	43.4	41.7	— —	—		
23	34.0	36.3	33.7	36.4	38.6	41.1	43.6	50.9	51.8	51.9	45.2	44.6	48.3	42.2	47.4	42.2	34.9	32.9	30.4
24	31.7	44.6	47.2	48.1	45.4	51.0	45.6	48.7	50.0	50.9	50.1	50.9	50.4	52.2	47.9	48.9	51.3	34.9	32.9
25	30.4	31.4	36.2	46.5	41.9	43.2	46.5	52.8	52.4	51.5	52.7	49.4	44.9	37.9	48.4	36.7	- -	34.5	33.4
26	38.4	34.4	46.1	48.9	51.3	52.4	49.1	50.5	49.4	52.4	52.9	52.9	54.9	52.3	49.9	47.3	43.8	36.4	34.4
27	32.6	33.6	40.2	47.2	49.7	50.9	52.2	55.6	53.9	53.1	50.4	46.9	51.5	49.4	49.9	51.4	49.8	37.9	38.0
28	39.2	44.6	46.6	49.3	49.0	51.6	52.9	52.2	52.2	48.6	49.9	48.4	51.4	51.5	49.9	39.6	36.5	32.7	24.8
29	31.7	39.2	46.0	48.7	47.2	51.8	51.4	49.8	54.0	51.1	49.8	49.1	49.6	51.6	45.4	41.6	40.6	35.9	34.4
30	38.8	44.6	46.9	50.8	52.2	51.2	45.5	48.0	51.7	54.3	56.7	52.5	55.0	54.4	49.8	45.7	48.9	34.8	32.8
31	31.3	43.3	40.8	44.9	46.3	50.4	52.8	53.4	53.9	54.4	49.2	55.0	55.0	37.8		30.9	34.0	30.3	
Means.	34.06	39.35	41.19	44.02	44.37	46.99	48.14	49.03	48.77	48.97	48.37	46.60	46.73	45.00	42.95	39.90	39.92	33.66	31.74

ATMOSPHERIC ELECTRICITY.

IN VOLTS. — P. N. = POSITIVE OR NEGATIVE OUT OF SCALE.

DECEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	5.8	6.2	5.4	4.7	5.8	6.5	11.6	3.6	2.9	1.8	2.2	1.4	—
2	7.2	7.2	6.9	6.2	5.4	10.9	9.1	5.8	4.0	1.4	1.4	— 1.1	—
3	5.1	4.7	5.1	4.7	5.8	4.7	4.7	5.4	3.6	1.8	1.8	1.4	—
4	6.2	4.3	3.6	5.4	3.6	3.3	4.3	2.9	2.5	1.1	1.4	0.4	—
5	—	—	3.3	4.7	3.3	6.2	6.2	2.9	2.9	2.2	1.8	2.2	—
6	11.2	13.4	8.7	9.1	7.2	8.3	12.3	4.3	2.9	2.5	1.4	—	—
7	16.7	6.9	8.7	6.9	10.5	13.0	13.4	5.8	2.9	1.8	2.5	1.8	—
8	7.6	6.2	4.3	5.8	9.1	5.4	5.4	5.4	3.6	9.8	4.0	3.3	—
9	5.4	5.1	3.3	2.9	3.6	3.3	4.0	3.6	3.6	2.2	1.4	1.1	—
10	5.1	4.0	4.7	4.3	4.0	5.4	7.2	4.0	4.0	2.5	2.2	1.8	—
11	10.1	9.4	10.1	8.0	11.2	6.9	6.5	6.2	4.3	4.0	4.3	3.6	—
12	9.1	8.7	8.0	7.2	8.3	12.7	7.2	5.4	4.3	2.5	1.4	2.5	—
13	6.9	8.0	7.2	7.6	6.5	4.3	5.4	5.1	4.0	1.8	2.2	2.2	—
14	3.6	2.9	3.6	3.6	0.7	3.6	N	N	N	3.6	3.3	2.9	—
15	5.1	4.7	4.0	3.3	3.6	3.6	4.7	4.0	2.9	2.2	1.8	2.5	—
16	2.5	3.3	2.5	2.5	2.9	2.2	3.3	2.9	2.9	1.8	0.0	0.4	—
17	— 0.7	5.1	5.8	4.3	3.6	4.3	4.0	1.8	2.9	— 3.6	2.2	1.4	—
18	4.3	3.6	4.0	5.1	3.3	3.3	3.6	5.1	4.3	3.3	2.5	— 1.4	—
19	6.9	8.3	13.4	12.3	11.9	12.7	9.4	3.6	2.2	1.8	1.8	P N	—
20	4.3	3.3	1.8	1.8	2.2	1.8	3.6	3.3	2.5	2.9	1.8	2.2	—
21	6.5	5.1	4.0	4.0	4.0	3.3	6.2	4.0	2.5	1.8	2.2	— 11.2	—
22	7.2	7.2	6.2	4.3	9.4	14.1	11.6	7.2	4.3	1.8	2.5	1.8	—
23	9.1	6.5	8.3	7.6	9.1	9.1	13.8	6.5	4.3	4.0	2.5	1.4	—
24	5.1	6.5	9.8	6.9	8.7	7.2	11.9	6.5	2.2	1.1	1.8	1.4	—
25	4.0	4.3	5.4	4.7	5.8	6.5	7.2	—	—	—	—	—	—
26	—	—	—	—	—	—	—	0.7	1.8	2.2	1.8	1.4	—
27	4.3	3.6	4.7	3.3	4.7	7.2	6.2	4.7	2.9	2.9	2.2	1.4	—
28	4.7	6.2	6.2	5.1	5.1	4.0	5.8	3.6	0.4	0.4	1.1	0.4	—
29	2.5	2.2	1.8	1.8	2.2	2.5	4.3	3.6	3.3	2.5	2.2	1.1	—
30	2.5	2.5	2.9	2.5	2.5	2.2	4.0	4.0	2.9	1.8	2.2	2.2	—
31	5.8	4.3	5.4	4.7	6.5	7.2	5.4	5.1	2.9	1.1	2.5	2.2	—
Hourly Means.	6.0	5.6	5.6	5.2	5.7	6.2	7.0	4.4	3.1	2.2	2.1	1.1	—

DECEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	— 1.1	— 1.8	— 0.7	0.7	1.1	1.1	4.3	3.3	3.3	4.0	3.3	6.5	3.4
2	— 0.7	— 1.4	P N	P N	0.7	2.5	5.1	4.7	6.9	6.5	5.4	4.7	4.5
3	P N	2.5	2.5	2.5	3.3	4.0	5.8	4.7	5.4	6.2	5.8	6.5	4.3
4	0.4	1.1	0.0	— 0.4	— 0.7	0.7	2.2	—	—	—	—	—	2.2
5	1.1	1.1	— 0.4	— 0.4	1.8	2.2	6.9	6.5	7.6	12.3	11.6	8.7	4.3
6	—	—	N	9.1	2.2	6.9	7.2	8.3	9.4	18.8	17.4	16.3	8.8
7	1.8	0.7	1.1	15.9	4.0	4.3	10.9	8.7	8.7	7.6	7.6	8.7	7.1
8	1.4	2.2	2.9	3.3	4.0	4.7	6.2	6.5	5.4	6.2	5.4	5.8	5.2
9	— 2.9	— 1.4	2.2	2.2	3.6	4.3	7.6	8.0	6.5	6.9	5.1	5.1	3.6
10	2.5	2.2	N	P N	P N	P N	13.0	13.0	10.9	7.6	9.8	6.9	5.8
11	2.5	3.3	N	N	N	5.4	7.6	10.5	9.4	9.1	6.5	9.1	7.0
12	2.2	1.8	P N	P N	P N	P N	P N	P N	P N	— 0.7	8.0	6.5	5.6
13	2.2	2.2	— 1.1	1.8	2.5	2.9	4.0	4.3	4.0	4.7	4.7	4.7	4.1
14	2.5	2.5	1.8	2.9	4.0	3.6	5.4	4.7	4.7	4.0	4.7	4.3	3.5
15	1.1	1.4	- 1.1	1.4	1.8	1.8	2.5	2.5	2.2	2.5	2.2	1.8	2.6
16	1.4	— 1.4	2.9	1.4	2.2	2.5	4.3	4.3	2.9	4.3	23.2	N	3.3
17	1.1	— 3.6	1.1	0.7	2.2	2.5	5.1	5.1	4.7	5.1	4.0	4.7	2.7
18	- 12.7	N	3.3	2.5	2.5	1.8	1.8	2.5	5.4	5.4	9.1	8.3	3.1
19	P N	P N	P N	P N	—	9.8	10.5	N	N	N	— 4.3	2.9	6.9
20	2.9	2.5	3.6	5.8	2.5	5.4	5.8	6.2	5.1	7.2	6.9	5.4	3.8
21	3.6	1.4	1.8	2.9	2.9	4.3	5.4	6.5	5.8	5.8	7.2	5.4	3.6
22	1.8	1.8	N	P	8.3	4.7	5.8	6.5	8.0	8.3	8.0	7.2	6.3
23	1.4	1.1	1.4	1.1	1.8	3.3	4.7	8.3	12.3	3.6	7.2	5.8	5.6
24	1.4	1.1	1.1	1.4	1.4	1.4	4.3	4.7	4.0	3.3	2.9	4.3	4.2
25	—	—	—	—	—	—	—	-	—	—	—	—	5.4
26	1.4	1.1	1.1	1.4	1.4	1.4	3.3	3.3	3.3	3.6	4.3	4.3	2.2
27	1.4	0.7	0.0	—	—	1.4	2.9	2.5	2.9	4.0	3.6	4.7	3.3
28	— 1.1	— 2.9	— 0.4	— 0.7	1.4	1.4	3.6	4.3	4.0	3.3	2.9	2.5	2.6
29	1.1	0.0	— 0.7	— 0.4	— 3.6	1.4	3.3	4.0	4.3	3.6	3.6	2.9	2.1
30	— 1.1	— 1.1	— 0.7	— 3.6	— 2.5	0.7	3.3	3.6	4.7	6.5	6.5	6.5	2.3
31	0.4	1.8	N	0.0	— 1.1	1.8	5.4	7.2	8.0	6.9	6.5	5.8	4.2
Hourly Means.	0.6	0.7	1.0	2.2	1.9	3.2	5.5	5.7	5.9	6.0	6.5	5.9	4.14

RAIN IN MILLIMETRES.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
January.	1	—	—	—	—	—	—	—	—	—	—	—	—	—
»	2	—	—	—	—	—	—	—	—	—	—	—	—	—
»	3	—	—	—	—	—	—	—	—	—	—	—	—	—
»	4	—	—	—	—	0.7	0.3	0.4	0.1	—	—	—	—	—
»	5	—	—	—	—	—	—	—	—	—	—	—	—	—
»	6	—	—	—	—	—	—	—	—	—	—	—	2.4	—
»	8	—	—	—	—	—	—	—	—	—	—	—	—	—
»	9	—	—	—	—	—	—	—	—	—	—	—	—	—
»	14	—	—	—	—	—	—	—	—	—	—	—	—	—
»	16	—	—	—	—	—	—	—	—	—	—	—	—	—
»	17	—	—	—	—	—	—	—	—	—	—	0.1	0.1	—
»	21	—	—	—	—	—	—	—	—	—	—	—	—	—
»	22	—	—	—	—	—	—	—	—	—	—	—	—	—
»	23	—	—	—	—	—	—	—	—	—	—	—	—	—
»	24	0.9	0.1	—	—	5.8	3.1	0.1	0.1	—	0.7	0.1	—	—
»	25	—	—	—	—	33.8	1.5	1.6	0.8	0.1	—	—	—	—
»	29	—	—	—	—	—	—	—	—	—	—	—	11.4	—
»	30	—	—	—	—	—	0.3	18.3	17.2	2.5	0.2	0.1	—	—
February.	1	—	6 —	—	—	—	—	—	—	—	—	—	—	—
»	2	0.1	—	—	—	—	—	—	—	—	—	—	—	—
»	3	—	—	—	—	—	—	—	—	—	—	—	—	—
»	4	—	—	—	—	—	—	—	—	—	—	—	—	—
»	5	3.4	7.4	5.0	0.2	—	—	—	—	—	—	—	—	—
»	10	—	0.4	—	2.4	3.2	5.5	4.4	0.9	0.1	0.1	—	—	—
»	12	—	—	—	—	—	—	—	—	—	—	—	—	—
»	13	0.8	0.2	0.1	0.1	—	—	0.1	—	—	—	—	—	—
»	14	11.4	11.1	0.4	0.1	—	0.3	0.4	0.1	—	—	—	0.2	—
»	15	—	0.1	0.1	—	—	0.1	0.2	—	—	—	—	—	—
»	16	—	—	—	—	—	—	—	—	—	—	—	—	—
»	18	—	—	—	—	—	—	—	—	—	—	—	—	—
»	22	—	—	—	—	—	—	—	—	—	—	—	0.3	—
»	23	—	—	—	—	—	—	—	—	—	—	—	—	—
»	26	—	—	—	—	—	—	—	—	—	—	0.2	—	—
»	28	—	—	—	6.0	4.4	0.8	0.8	0.1	—	—	—	—	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
January.	1	—	—	—	—	—	—	—	—	0.7	0.8	0.3	0.1	1.9
»	2	—	—	—	17.8	0.3	0.1	0.4	0.5	0.2	0.1	—	—	19.4
»	3	—	—	—	—	—	—	3.7	0.1	0.1	0.7	0.1	—	4.7
»	4	—	—	—	—	—	—	—	—	—	—	—	—	1.5
»	5	—	—	—	—	—	0.1	—	—	—	—	—	—	0.1
»	6	3.1	0.8	4.2	1.0	0.2	2.5	0.3	0.1	0.1	—	—	—	14.7
»	8	1.0	—	—	—	—	—	—	—	—	—	—	—	1.0
»	9	—	—	—	—	—	10.3	0.9	—	—	—	—	—	11.2
»	14	—	—	—	—	—	1.5	—	—	—	—	—	—	1.5
»	16	—	—	—	—	—	—	—	—	0.1	—	—	—	0.1
»	17	—	—	—	—	—	—	—	—	—	—	—	—	0.2
»	21	—	—	—	4.7	18.6	1.5	1.1	0.3	0.1	—	—	—	26.3
»	22	—	1.0	2.1	0.3	—	—	—	—	—	—	—	—	3.4
»	23	—	—	—	—	—	—	—	1.8	9.5	7.4	3.4	3.2	25.3
»	24	—	—	0.2	—	—	—	—	—	—	—	—	—	11.1
»	25	—	—	—	—	—	2.2	—	—	—	—	—	—	40.0
»	29	0.1	—	—	—	—	—	—	—	—	—	—	—	11.5
»	30	—	—	—	—	—	—	—	—	—	—	—	—	38.6
February.	1	—	—	—	—	—	—	8.1	0.3	0.4	0.3	0.2	0.1	9.4
»	2	—	—	—	—	—	—	—	—	—	—	—	—	0.1
»	3	—	—	—	—	—	4.2	0.2	—	—	—	—	—	4.4
»	4	—	—	2.2	0.5	—	—	—	—	—	—	—	1.4	4.1
»	5	—	—	—	—	—	—	—	—	—	—	—	—	16.0
»	10	—	—	—	—	—	—	—	—	—	—	—	—	17.0
»	12	—	—	—	—	—	—	0.3	0.6	1.6	2.3	2.2	1.6	8.6
»	13	—	—	—	—	—	—	—	—	—	—	—	—	1.3
»	14	0.2	—	—	—	—	—	—	—	—	—	—	—	24.2
»	15	—	—	—	—	—	—	—	—	—	—	—	—	0.5
»	16	—	—	—	—	—	—	0.1	—	—	—	—	—	0.1
»	18	—	—	—	—	55.1	0.6	—	—	—	—	—	—	55.7
»	22	—	—	—	—	—	—	—	—	—	—	—	—	0.3
»	23	—	—	—	—	—	—	—	—	—	3.6	5.8	0.1	9.5
»	26	—	—	—	—	—	—	—	—	—	—	—	—	0.2
»	28	—	—	1.0	—	20.6	0.1	—	—	—	—	—	—	33.8

RAIN IN MILLIMETRES.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
March.	1	1.1	0.1	—	—	4.6	2.3	0.2	0.1	—	—	—	—	—
»	2	0.1	0.1	0.5	1.1	3.7	1.5	0.1	0.6	1.3	—	—	—	—
»	3	—	—	—	—	—	0.2	—	—	—	—	—	—	—
»	4	—	—	—	—	—	—	—	—	—	—	—	—	—
»	5	—	—	—	—	—	—	—	—	—	—	—	—	—
»	6	—	—	—	—	—	—	—	—	—	—	—	—	—
»	9	—	—	—	—	—	—	—	—	—	—	—	—	—
»	11	—	—	—	—	—	—	—	—	—	—	—	—	—
»	13	—	—	—	—	—	—	—	—	—	31.7	7.4	3.9	—
»	17	—	—	—	—	—	—	—	—	—	2.4	0.3	—	—
»	18	—	—	—	—	—	—	—	—	—	—	—	—	—
»	22	—	—	—	—	—	—	—	—	—	—	—	—	—
»	24	—	—	—	—	—	—	—	—	—	—	—	—	—
»	25	—	—	—	—	—	—	—	—	—	—	—	—	—
»	26	—	—	—	—	—	—	—	—	—	—	—	—	—
April.	2	—	—	—	—	—	—	—	—	—	—	—	—	—
»	4	—	—	—	—	—	—	—	—	—	—	—	—	—
»	5	—	—	—	—	—	—	—	—	—	—	—	—	—
»	7	—	—	—	—	—	—	—	—	—	—	—	—	—
»	8	—	—	—	—	—	—	—	—	—	—	—	—	—
»	9	—	—	—	—	—	—	—	—	—	—	—	—	—
»	13	—	—	—	—	—	—	—	—	—	—	—	—	—
»	14	0.2	0.1	0.1	—	—	—	—	—	—	—	—	—	—
»	15	—	—	—	—	—	1.7	0.2	—	—	—	—	—	—
»	18	—	—	—	—	—	—	—	—	—	—	—	—	—
»	19	—	—	—	—	—	—	—	—	—	—	—	—	—
»	23	—	—	—	—	—	—	—	—	—	—	—	—	—
»	24	—	—	0.1	0.2	0.2	0.1	0.5	0.3	—	—	—	—	—
»	26	—	—	—	—	—	—	—	—	—	—	—	—	—
»	27	—	—	—	—	—	—	—	—	0.1	—	—	—	—
»	29	—	—	—	—	—	—	—	—	—	—	—	—	—
May.	2	—	—	—	—	—	—	—	—	—	—	—	—	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
March.	1	0.2	—	—	—	—	—	—	—	—	—	—	—	8.6
»	2	—	—	—	—	—	—	—	—	—	—	—	—	9.0
»	3	3.0	0.1	5.3	0.1	—	—	—	—	—	—	—	—	8.7
»	4	1.9	4.0	3.5	3.0	2.5	1.9	0.4	0.2	0.1	—	0.3	0.1	17.9
»	5	—	0.2	—	—	—	—	—	—	—	—	—	—	0.2
»	6	—	1.9	0.1	—	—	—	—	—	—	—	—	—	2.0
»	9	—	—	—	—	—	—	—	0.1	0.7	0.1	—	—	0.9
»	11	—	—	—	—	—	—	—	0.3	0.9	0.1	—	—	1.3
»	13	0.8	0.1	—	—	—	—	—	—	—	—	—	—	43.9
»	17	—	—	—	—	—	—	—	—	—	—	—	—	2.7
»	18	—	—	—	—	—	—	—	0.3	—	—	—	—	0.3
»	22	—	—	—	—	—	3.4	8.1	0.1	—	—	—	—	11.6
»	24	0.5	—	13.8	1.2	0.1	—	—	—	—	—	—	—	15.6
»	25	14.6	0.3	1.8	—	—	—	—	—	—	—	—	—	16.7
»	26	1.6	0.1	—	—	—	—	3.5	—	—	—	—	—	5.2
April.	2	5.6	0.3	—	—	—	—	—	—	—	—	—	—	5.9
»	4	—	—	—	—	—	18.7	0.2	0.2	0.1	—	—	—	19.2
»	5	—	—	—	—	—	0.7	—	—	—	—	—	—	0.7
»	7	—	—	—	8.5	0.1	—	—	—	—	—	—	—	8.6
»	8	—	—	—	—	—	—	0.3	0.1	—	—	—	—	0.4
»	9	—	—	—	—	—	—	0.3	5.6	—	—	—	—	5.9
»	13	—	—	—	—	—	—	—	—	—	—	0.3	1.2	1.5
»	14	—	—	—	—	—	—	—	—	—	—	—	—	0.4
»	15	—	—	—	—	—	—	—	—	—	—	—	—	1.9
»	18	—	—	—	—	—	—	—	0.2	0.1	—	—	—	0.3
»	19	—	—	—	—	—	—	—	—	2.2	6.5	0.1	—	8.8
»	23	—	—	—	—	—	—	1.9	3.0	0.1	—	—	—	5.0
»	24	—	—	—	—	—	—	—	—	—	—	—	—	1.4
»	26	0.1	1.6	—	0.1	7.2	0.1	—	—	—	—	—	—	9.1
»	27	—	—	—	—	—	—	—	—	—	—	—	—	0.1
»	29	—	—	—	—	—	—	1.1	6.0	—	—	—	—	7.1
May.	2	—	—	—	—	—	—	—	0.5	0.1	—	—	—	0.6

RAIN IN MILLIMETRES.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
May.	4	—	—	—	—	—	—	—	—	—	0.1	—	—	—
»	6	—	—	—	—	—	—	—	—	—	—	—	—	—
»	7	—	—	—	—	—	—	—	—	—	—	—	—	—
»	16	—	—	—	—	—	—	—	—	—	—	—	—	—
»	22	—	—	—	—	—	—	—	—	—	—	—	—	—
»	23	1.4	0.1	—	—	—	0.1	1.5	0.2	—	—	—	—	—
»	24	—	—	—	—	—	—	—	—	—	—	—	—	—
»	25	3.7	4.4	1.0	0.2	0.1	—	—	—	—	—	—	—	—
»	27	—	—	—	—	—	—	—	—	—	—	—	4.8	—
»	28	—	—	—	—	—	—	—	—	—	—	—	—	—
»	31	—	—	—	—	—	—	—	—	—	—	—	—	—
June.	6	—	—	—	—	—	—	—	—	—	—	0.1	4.5	—
»	11	—	—	—	—	—	—	—	—	—	—	—	—	—
»	12	—	—	—	—	—	—	—	—	—	—	—	—	—
»	17	—	0.8	2.8	1.1	0.2	0.1	—	—	—	—	—	—	—
»	21	—	—	—	—	—	—	—	—	—	—	—	—	—
»	22	—	—	—	—	—	—	—	—	—	—	—	—	—
»	23	—	—	—	—	—	—	—	—	—	—	—	—	—
»	24	—	0.1	0.4	—	—	—	—	—	—	—	—	—	—
»	25	—	0.3	0.1	0.1	—	—	—	—	—	—	—	—	—
»	26	—	—	—	—	—	—	—	—	—	—	—	—	—
»	29	—	—	—	—	—	—	—	—	—	—	—	—	—
»	30	—	—	0.2	0.1	—	—	—	—	—	—	—	—	—
July	2	—	—	—	—	—	—	—	—	—	—	—	—	—
»	4	—	—	—	—	—	—	—	—	—	—	—	—	—
»	7	—	—	—	—	—	—	—	—	—	—	—	—	—
»	8	—	—	0.1	2.0	7.7	8.0	5.0	2.0	0.6	0.2	0.1	0.1	—
»	9	—	—	—	—	0.2	0.1	0.2	0.3	1.6	0.2	—	—	—
»	12	—	—	—	—	—	0.1	—	—	—	—	—	—	—
»	19	—	—	—	—	—	—	—	—	—	—	—	—	—
»	20	—	—	—	—	—	—	—	—	—	—	—	—	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
May.	4	—	—	—	—	—	—	—	—	—	—	—	—	0.1
»	6	—	—	—	1.6	0.2	—	—	—	—	—	—	—	1.8
»	7	—	—	—	—	0.3	—	—	—	—	—	—	—	0.3
»	16	—	—	—	—	—	—	—	—	—	1.6	0.2	—	1.8
»	22	—	—	0.1	—	—	—	—	—	—	—	—	—	0.1
»	23	—	—	—	—	—	—	—	—	—	—	—	—	3.3
»	24	—	—	—	—	—	—	—	—	—	—	30.3	12.7	43.0
»	25	—	—	—	—	—	—	—	—	—	—	—	—	9.4
»	27	0.3	0.2	—	—	—	—	—	—	—	—	—	—	5.3
»	28	—	—	—	—	1.1	0.1	—	—	—	—	—	—	1.2
»	31	—	—	—	3.9	0.4	0.1	—	—	—	—	—	—	4.4
June.	6	7.1	0.1	2.2	0.7	0.6	0.1	—	—	—	—	—	—	15.4
»	11	—	—	0.4	2.2	0.1	—	—	1.6	2.6	0.3	0.1	—	7.3
»	12	—	—	—	—	—	4.3	9.0	0.2	0.2	0.1	—	—	13.8
»	17	—	—	—	—	—	—	—	—	—	—	—	—	5.0
»	21	—	—	—	—	—	—	1.0	0.2	0.1	—	—	—	1.3
»	22	—	—	—	—	9.6	2.2	0.3	0.3	—	—	—	—	12.4
»	23	—	—	0.5	—	—	—	—	—	—	—	—	—	0.5
»	24	—	—	—	—	—	—	—	—	—	—	—	—	0.5
»	25	—	—	—	—	—	—	—	—	—	—	—	—	0.5
»	26	—	14.2	0.1	—	0.2	—	—	—	—	—	—	—	14.5
»	29	—	—	0.7	—	—	—	—	—	—	—	—	—	0.7
»	30	—	—	—	—	—	—	—	—	—	—	—	—	0.3
July	2	—	1.6	0.1	—	—	15.1	0.1	—	—	—	—	—	16.9
»	4	—	—	—	—	—	4.3	—	—	—	—	—	—	4.3
»	7	—	—	—	—	—	1.3	10.4	1.3	0.1	—	—	—	13.1
»	8	—	—	—	—	—	—	—	—	—	—	—	—	25.8
»	9	—	—	—	—	—	—	—	—	—	—	—	—	2.6
»	12	—	—	—	—	—	—	—	—	—	—	—	—	0.1
»	19	—	—	—	—	0.2	5.6	2.2	0.6	—	—	—	—	8.6
»	20	—	—	3.7	0.2	—	—	—	—	—	—	—	—	3.9

RAIN IN MILLIMETRES.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
August.	10	—	—	—	—	—	—	—	—	—	—	—	—	—
»	12	—	—	—	—	16.1	1.6	—	—	—	—	—	—	—
»	23	1.9	3.3	1.0	0.1	—	—	—	—	—	—	—	—	—
»	25	0.4	1.2	5.1	0.6	8.9	1.4	—	0.5	0.1	—	—	—	—
September	2	—	—	—	—	—	—	—	—	—	—	—	—	—
»	16	—	—	—	—	—	—	—	—	—	—	—	0.3	—
»	17	—	—	—	—	—	—	—	—	—	—	—	—	—
»	19	—	—	—	—	—	—	—	—	—	—	—	—	—
»	20	—	—	—	—	—	—	—	—	—	—	—	—	—
»	28	—	—	—	—	—	—	—	—	—	—	—	1.3	—
»	30	—	—	—	—	2.9	0.6	—	0.5	—	—	15.3	1.2	—
October.	3	—	—	—	—	—	—	—	—	—	—	—	—	—
»	5	—	—	—	—	—	—	—	—	—	—	—	0.7	—
»	6	—	—	0.2	0.2	0.1	—	0.9	2.9	0.1	—	—	—	—
»	7	—	—	—	—	—	—	—	—	—	—	—	—	—
»	9	—	—	—	—	—	—	—	—	—	—	—	—	—
»	10	—	—	—	—	—	—	—	—	—	—	—	—	—
»	11	—	—	—	—	—	—	—	—	—	—	—	—	—
»	13	—	—	—	—	—	—	—	—	—	—	—	0.2	—
»	18	—	—	—	—	—	—	—	—	—	—	—	—	—
»	20	—	—	—	—	—	—	—	—	—	—	—	—	—
»	21	—	—	—	—	—	—	—	—	—	—	—	—	—
»	25	—	0.5	0.1	—	—	—	—	—	—	—	—	—	—
»	27	—	—	—	—	—	—	4.4	6.3	0.5	—	—	—	—
»	28	—	—	—	—	—	—	—	—	—	—	—	—	—
November.	4	—	—	—	—	—	—	—	—	—	—	—	—	—
»	6	—	—	—	—	—	—	—	—	—	—	—	—	—
»	10	—	—	—	—	—	—	—	—	1.7	0.2	—	—	—
»	11	—	—	—	2.3	1.6	0.3	22.0	13.5	0.8	0.7	0.3	0.1	—
»	15	—	—	—	—	—	—	—	—	—	—	—	—	—
»	17	—	—	—	—	—	—	—	—	—	—	—	—	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
August.	10	—	—	—	—	—	—	0.2	—	—	—	—	—	0.2
»	12	—	—	—	—	—	—	—	—	—	—	—	—	17.7
»	23	—	—	—	—	—	—	—	—	—	—	—	—	6.3
»	25	—	—	—	—	—	—	—	—	—	—	—	—	18.2
September.	2	—	—	—	—	—	—	—	—	—	0.8	3.5	0.1	4.4
»	16	—	—	—	—	—	—	—	—	—	—	—	—	0.3
»	17	—	—	3.2	0.1	—	—	—	—	—	—	—	—	3.3
»	19	—	—	—	—	0.5	4.2	0.5	0.1	—	—	—	—	5.3
»	20	—	—	—	—	—	—	—	0.2	0.1	—	—	—	0.3
»	28	—	1.6	1.3	3.8	2.3	1.9	0.6	0.2	0.1	—	—	—	13.1
»	30	0.1	—	—	—	—	—	—	—	—	—	—	—	20.6
October.	3	—	7.5	0.2	5.4	0.8	0.1	—	—	—	—	—	—	14.0
»	5	29.0	1.8	0.1	—	—	—	—	—	—	—	—	—	31.6
»	6	—	—	—	—	—	—	—	—	—	—	—	—	4.4
»	7	—	—	—	—	—	—	0.1	—	—	—	—	—	0.1
»	9	—	4.4	0.1	—	—	—	—	—	—	—	—	—	4.5
»	10	—	—	—	3.7	1.0	—	0.1	1.1	0.1	—	—	—	6.0
»	11	—	0.4	—	—	—	—	—	—	—	—	—	—	0.4
»	13	0.4	—	—	—	—	—	—	—	—	—	—	—	0.6
»	18	—	—	—	—	1.4	0.3	0.2	—	—	—	—	—	1.9
»	20	—	4.6	0.5	0.1	9.0	0.4	—	—	—	—	—	—	14.6
»	21	—	2.5	1.0	—	—	—	—	—	—	—	—	—	3.5
»	25	—	—	0.1	0.6	0.1	0.1	—	—	—	—	—	—	1.5
»	27	—	—	—	—	—	—	—	—	—	—	—	—	11.2
»	28	—	—	—	—	—	—	—	—	—	—	0.1	0.1	0.2
November.	4	—	—	—	—	—	1.1	0.1	—	—	—	—	—	1.2
»	6	—	—	2.0	—	—	—	—	—	—	—	—	—	2.0
»	10	—	—	—	—	—	—	—	—	—	—	—	—	1.9
»	11	—	—	—	—	—	—	—	—	—	—	—	—	41.6
»	15	—	1.0	0.1	—	—	—	—	—	—	—	—	—	1.1
»	17	2.1	0.2	—	—	—	—	—	—	—	—	—	—	2.3

RAIN IN MILLIMETRES.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
November. 18	—	—	—	—	—	—	—	—	—	—	—	—	—
» 19	4.4	1.2	3.6	1.6	0.1	0.1	—	—	—	—	—	—	—
» 21	—	—	—	—	—	—	—	—	—	—	—	—	—
» 22	—	—	—	—	—	—	—	—	—	—	—	—	—
» 23	—	—	—	—	—	—	—	—	—	—	—	—	—
» 24	1.0	0.4	0.1	0.1	—	—	—	—	—	—	—	—	—
December. 2	—	—	—	—	—	—	—	—	—	—	—	—	—
» 3	—	—	—	—	—	—	—	—	—	—	—	—	—
» 6	—	—	—	—	—	—	—	—	—	—	—	—	—
» 7	—	—	—	—	—	—	—	—	—	—	—	—	—
» 10	—	—	—	—	—	—	—	—	—	—	—	—	—
» 11	—	—	—	—	—	—	—	—	—	—	—	—	—
» 12	—	—	—	—	—	—	—	—	—	—	—	—	—
» 14	—	—	—	—	0.3	0.1	0.3	1.3	0.3	—	—	—	—
» 17	—	—	—	—	—	—	—	—	—	—	—	0.4	—
» 18	—	—	—	—	—	—	—	—	—	—	—	—	—
» 19	—	—	—	—	—	—	—	—	—	—	—	15.7	—
» 20	0.3	0.1	—	—	—	—	—	—	—	—	—	—	—
» 22	—	—	—	—	—	—	—	—	—	—	—	—	—
» 25	—	—	—	—	—	—	—	—	—	—	—	—	—
» 28	—	—	—	—	—	—	—	—	—	—	—	—	—
» 29	—	—	—	—	—	—	—	—	—	—	—	—	—
» 31	—	—	—	—	—	—	—	—	—	—	—	—	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
November. 18	—	—	—	—	—	—	—	—	—	—	—	0.4	0.4
» 19	—	—	—	—	—	—	—	—	—	—	—	—	11.0
» 21	—	—	—	—	—	—	—	—	0.2	0.5	0.3	—	1.0
» 22	—	—	—	0.7	1.7	2.9	1.0	0.4	0.6	0.3	0.1	0.1	7.8
» 23	—	—	—	—	—	—	—	—	—	—	—	0.5	0.5
» 24	—	—	—	—	—	—	—	—	—	—	—	—	1.6
December. 2	—	—	—	3.2	0.2	—	—	—	—	—	—	—	3.4
» 3	2.4	0.1	—	—	—	—	—	—	—	—	—	—	2.5
» 6	—	—	5.8	0.1	—	—	—	—	—	—	—	—	5.9
» 7	—	—	—	0.2	0.1	—	—	—	—	—	—	—	0.3
» 10	—	—	—	14.6	0.5	—	—	—	—	—	—	—	15.1
» 11	—	—	15.3	2.8	0.9	0.1	—	—	—	—	—	—	19.1
» 12	—	—	20.5	2.2	1.7	0.1	8.6	0.6	0.6	0.5	0.1	0.1	35.0
» 14	—	—	—	—	—	—	—	—	—	—	—	—	2.3
» 17	—	—	—	—	—	—	—	—	—	—	—	—	0.4
» 18	0.6	9.1	1.9	0.1	—	—	—	—	—	—	—	—	11.7
» 19	3.8	1.4	0.3	1.2	0.8	0.2	0.1	0.3	2.0	1.0	0.8	0.3	27.9
» 20	—	—	—	—	—	—	—	—	—	—	—	—	0.4
» 22	—	—	0.7	6.1	0.6	0.1	—	—	—	—	—	—	7.5
» 25	—	—	—	0.9	—	—	—	—	—	—	—	—	0.9
» 28	—	—	—	—	0.1	—	—	—	—	—	—	—	0.1
» 29	—	—	—	—	0.1	0.1	—	—	—	—	—	—	0.2
» 31	—	—	1.6	—	1.9	0.1	—	—	—	—	—	—	3.6

MAGNETICAL OBSERVATIONS

1889.

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. 1°30'.0 + THE NUMBERS IN THE TABLE.

JANUARY. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	15.1	15.1	15.3	15.1	14.7	14.4	14.2	14.4	15.3	15.9	17.0	17.8	—
2	15.1	15.0	14.4	14.1	14.2	13.3	12.7	13.0	14.2	16.1	16.1	17.3	—
3	15.5	15.5	15.3	15.3	15.1	14.1	12.9	12.8	13.8	15.9	17.8	18.9	—
4	15.3	15.3	15.2	15.0	14.7	13.8	11.9	11.8	13.2	15.0	17.0	18.2	—
5	15.5	15.5	15.4	15.3	15.2	14.2	12.7	12.9	13.3	14.3	15.8	17.5	—
6	15.4	15.4	15.3	15.1	15.0	14.4	13.7	13.2	13.8	14.7	15.5	17.3	—
7	15.4	15.5	15.3	15.1	15.0	14.2	12.9	12.7	12.7	13.4	13.8	15.8	—
8	15.5	15.2	16.1	14.9	15.0	15.0	14.7	12.9	12.7	12.7	13.5	15.3	—
9	15.9	15.9	15.7	15.7	15.4	15.4	15.0	13.6	13.5	12.8	13.3	14.6	—
10	15.0	15.0	15.0	15.0	15.2	15.4	15.5	15.8	15.3	15.7	15.7	16.6	—
11	15.0	15.1	14.9	15.0	14.7	14.2	13.7	13.8	14.2	14.1	13.7	13.8	—
12	15.1	15.2	15.0	14.6	14.4	14.2	15.4	16.1	16.9	16.3	16.8	16.2	—
13	15.0	15.0	14.7	14.4	14.4	14.1	13.9	14.3	14.5	15.1	15.3	15.4	—
14	15.2	15.1	14.9	14.9	14.3	13.9	13.9	14.9	15.0	15.1	15.2	15.4	—
15	15.1	15.1	15.0	15.0	14.7	14.1	13.3	13.5	14.4	15.4	15.9	15.5	—
16	15.0	15.0	15.0	15.0	14.7	13.8	13.2	14.2	15.1	15.9	16.1	16.5	—
17	15.4	15.3	15.2	15.1	15.1	14.1	14.1	14.9	15.1	15.1	15.0	15.0	—
18	15.3	15.2	15.0	15.0	14.9	14.1	12.9	13.2	15.0	16.1	16.9	17.3	—
19	15.7	15.2	15.5	15.3	15.1	13.8	12.7	13.0	14.4	15.9	16.5	17.1	—
20	15.7	15.7	15.5	15.5	15.0	14.4	12.7	12.8	13.3	14.3	15.5	16.2	—
21	15.4	15.5	15.8	15.8	15.2	15.0	12.7	12.7	13.8	13.9	14.4	15.3	—
22	15.7	15.8	15.9	15.8	15.5	15.8	14.1	13.2	13.0	14.2	16.1	17.4	—
23	15.9	16.0	15.8	15.5	15.9	15.4	13.8	13.3	13.3	13.8	15.0	15.9	—
24	15.9	16.1	15.9	15.9	15.9	15.4	14.1	13.4	13.2	13.7	14.7	15.5	—
25	16.1	16.1	15.9	15.7	15.2	15.2	14.4	13.8	13.5	13.6	15.0	16.7	—
26	15.7	15.5	15.2	15.3	15.0	15.0	14.7	13.8	13.5	12.8	14.2	15.7	—
27	15.2	15.1	15.1	15.0	15.0	15.0	15.0	15.4	15.5	15.4	15.2	16.1	—
28	15.4	15.2	15.1	15.0	15.0	14.7	14.1	13.8	14.1	14.6	14.7	14.2	—
29	15.3	15.0	15.0	15.0	14.7	14.5	13.9	13.8	14.2	14.9	15.2	15.9	—
30	15.1	15.0	15.0	14.7	14.5	13.8	13.7	13.9	14.9	15.8	16.0	16.1	—
31	15.3	15.1	15.2	14.9	14.6	13.8	12.9	12.7	12.8	14.9	16.1	17.3	
Hourly Means.	15.39	15.35	15.28	15.13	14.95	14.47	13.72	13.66	14.11	14.75	15.45	16.25	—

JANUARY. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	17.7	17.5	17.3	17.0	16.7	16.5	16.1	16.1	16.1	15.8	15.5	15.2	15.91
2	17.6	17.6	17.0	16.2	16.1	16.3	16.6	16.2	16.1	16.0	15.9	16.0	15.55
3	18.5	17.5	16.7	16.1	15.9	16.0	16.1	16.1	16.0	15.9	15.5	15.3	15.77
4	18.4	17.8	17.3	16.8	16.2	16.1	16.0	15.9	16.0	15.8	15.5	15.5	15.57
5	18.4	18.2	17.4	16.9	16.5	16.5	16.3	16.0	15.9	15.7	15.4	15.3	15.67
6	18.4	18.4	18.7	17.9	16.8	16.3	16.1	16.0	16.1	15.7	15.5	15.4	15.84
7	17.1	17.5	17.5	17.8	17.3	16.3	16.1	16.0	16.0	15.8	15.3	15.2	15.40
8	17.3	17.8	17.6	17.0	16.7	16.3	16.3	16.1	16.1	16.0	15.9	15.8	15.52
9	16.0	16.7	17.3	17.4	17.1	16.5	16.1	16.1	15.9	15.5	15.5	15.2	15.50
10	18.1	19.2	19.3	19.1	18.3	17.3	17.3	16.7	16.1	15.7	15.2	15.1	16.36
11	15.0	16.1	17.0	17.3	18.1	17.0	16.2	16.1	16.1	15.8	15.3	15.3	15.31
12	16.1	16.3	16.6	16.9	17.3	17.1	16.3	16.2	16.1	15.8	15.9	15.2	15.92
13	15.4	14.7	14.7	15.0	16.0	16.5	16.0	16.1	15.7	15.1	15.2	15.2	15.07
14	16.0	16.8	17.4	16.7	16.2	16.1	15.9	15.7	15.8	15.5	15.4	15.2	15.44
15	15.3	15.4	16.0	15.8	15.8	15.9	16.1	16.0	15.9	15.9	15.5	15.1	15.24
16	17.3	18.4	18.3	17.8	17.0	16.5	16.2	16.1	16.1	15.8	15.5	15.3	15.83
17	15.1	15.5	16.1	16.3	16.5	16.1	16.0	15.7	15.8	15.3	15.2	15.3	15.35
18	17.3	17.0	17.3	16.1	15.9	16.0	16.1	16.1	16.1	15.9	15.5	15.5	15.65
19	17.3	17.4	17.0	16.2	15.8	15.9	16.0	15.7	15.8	15.4	15.3	15.5	15.56
20	17.7	18.3	18.4	17.3	16.2	16.1	16.3	16.1	15.4	15.8	15.3	14.3	15.58
21	16.1	16.8	16.5	16.1	15.7	16.0	16.0	15.7	15.8	15.0	15.0	15.3	15.23
22	17.7	18.1	17.3	16.0	15.7	16.1	16.1	16.1	16.1	15.9	15.4	16.1	15.80
23	16.5	17.1	17.9	18.2	17.3	16.5	16.0	15.9	15.9	15.7	15.7	15.9	15.76
24	16.2	17.3	17.3	17.3	16.7	16.3	16.1	16.1	16.1	16.1	16.1	16.1	15.73
25	17.5	17.3	17.0	16.9	16.5	16.0	16.0	16.0	16.0	15.9	15.7	15.3	15.72
26	16.8	17.3	17.3	16.7	15.9	16.0	16.1	16.1	16.0	15.9	15.5	15.2	15.47
27	16.2	16.7	17.3	17.3	16.8	16.0	16.0	16.1	16.1	16.0	15.5	15.4	15.77
28	14.3	15.2	16.3	17.1	16.7	16.5	16.3	16.1	16.0	16.0	15.8	15.4	15.32
29	16.1	16.2	17.1	17.1	16.3	16.1	16.2	16.0	15.9	15.7	15.4	15.2	15.45
30	15.4	15.1	14.9	15.0	16.0	16.2	16.1	16.1	16.0	15.9	15.3	15.2	15.24
31	17.4	18.1	18.2	17.4	16.7	16.1	15.9	15.7	15.3	15.3	15.4	15.2	15.51
Hourly Means.	16.78	17.07	17.16	16.86	16.54	16.29	16.16	16.03	15.95	15.73	15.49	15.36	15.58

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	285	284	287	290	291	291	296	302	305	304	305	303	—
	2	288	287	302	302	283	290	296	303	313	307	315	307	—
	3	288	283	288	284	288	291	293	297	304	315	322	321	—
	4	289	289	290	291	292	293	302	303	320	331	337	325	—
	5	289	288	292	292	294	297	302	303	314	334	340	336	—
	6	290	289	290	293	293	294	296	299	308	320	328	326	—
	7	297	293	297	297	297	302	314	315	321	327	330	326	—
	8	288	285	288	297	293	296	294	303	308	317	312	313	—
	9	295	295	298	298	300	303	297	304	303	321	332	332	—
	10	285	290	291	290	290	289	293	299	306	316	329	338	—
	11	283	279	297	292	292	288	296	297	303	313	321	314	—
	12	276	280	279	283	283	292	297	299	302	311	317	318	—
	13	283	284	288	282	278	288	293	290	301	306	310	308	—
	14	277	277	278	281	282	283	293	300	308	316	313	308	—
	15	281	282	283	283	283	284	287	293	302	307	312	306	-
	16	279	278	281	281	286	287	296	299	306	313	315	308	—
	17	279	281	282	283	285	288	296	298	305	306	303	302	—
	18	281	279	279	282	283	288	302	315	321	331	331	323	—
	19	278	283	279	281	283	287	292	298	315	321	318	313	—
	20	278	278	278	279	282	285	304	321	334	345	340	342	—
	21	254	243	264	258	257	255	264	265	281	283	271	261	—
	22	260	263	264	264	268	273	277	276	297	306	311	298	—
	23	267	265	268	273	274	275	282	288	302	309	312	302	—
	24	277	268	280	270	269	274	279	283	297	311	312	300	—
	25	283	282	282	283	283	283	284	289	299	305	309	312	—
	26	288	289	290	288	288	295	296	296	296	307	325	321	—
	27	284	286	285	288	291	293	293	298	302	311	316	314	—
	28	288	290	292	293	295	297	307	316	326	324	329	326	—
	29	277	281	283	283	288	291	288	291	301	307	311	310	—
	30	283	285	283	285	287	288	298	305	312	321	326	312	—
	31	283	287	280	297	286	288	294	302	307	319	330	321	—
Hourly Means.		281.7	281.4	284.5	285.3	285.3	288.0	293.6	298.3	307.1	315.0	318.8	314.4	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	306	305	297	290	289	284	284	287	286	287	290	293	293.4
	2	295	276	269	265	266	264	268	274	278	282	279	274	286.8
	3	311	302	292	291	288	292	289	288	288	288	287	288	294.9
	4	306	293	283	283	285	290	293	293	290	293	289	292	298.0
	5	321	306	293	292	292	290	290	293	293	291	289	292	301.0
	6	320	310	297	293	299	300	301	302	293	293	291	293	300.8
	7	326	321	310	304	284	283	298	302	305	302	298	297	306.1
	8	303	288	283	280	282	283	284	283	285	289	293	295	293.4
	9	326	315	307	301	301	296	287	288	289	292	293	289	302.6
	10	332	326	323	313	312	297	271	264	281	293	283	290	300.0
	11	316	312	302	299	288	281	282	283	286	278	283	276	294.2
	12	312	303	288	292	269	264	269	274	274	275	279	280	288.2
	13	300	293	288	278	276	274	272	274	277	280	269	280	286.3
	14	306	298	288	283	280	278	278	279	279	283	278	280	288.6
	15	297	288	279	279	283	283	283	282	283	272	274	285	287.1
	16	302	299	291	286	286	283	280	279	278	278	278	278	289.5
	17	296	293	293	283	282	282	283	285	285	285	284	282	289.2
	18	314	304	297	288	283	282	283	283	279	279	279	282	294.5
	19	305	305	295	283	280	283	283	283	281	279	279	279	291.0
	20	316	292	291	288	285	284	283	245	236	240	259	268	289.7
	21	265	259	247	258	256	253	259	255	254	269	253	271	260.7
	22	283	275	272	268	264	255	267	264	264	259	262	262	273.0
	23	283	273	266	274	278	274	272	274	272	276	277	278	279.8
	24	284	278	274	279	278	273	274	276	274	277	281	283	281.3
	25	307	302	293	291	286	283	281	283	280	282	283	288	289.7
	26	308	298	289	288	286	287	282	283	280	279	280	283	292.6
	27	316	315	310	303	294	288	283	279	279	282	286	287	295.1
	28	321	312	303	292	280	278	274	276	274	278	283	278	297.2
	29	312	308	302	293	293	286	288	283	281	277	276	278	291.2
	30	306	298	297	302	298	291	288	293	289	285	288	288	296.2
	31	307	293	287	285	278	275	276	279	281	281	282	283	291.7
Hourly Means.		306.5	298.1	290.5	287.2	283.9	281.2	280.8	280.2	279.8	280.8	280.9	283.0	291.1

VERTICAL FORCE. A.

HOURLY OBSERVATIONS — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY.	1	416	413	411	409	409	413	408	398	390	376	373	377	—
	2	413	412	406	406	418	422	416	401	392	391	391	390	—
	3	409	412	410	411	410	414	410	410	391	357	372	384	—
	4	419	417	415	416	415	422	423	412	379	369	367	374	—
	5	418	418	416	414	412	418	417	397	386	365	368	375	—
	6	414	414	414	409	409	411	416	408	399	383	372	363	—
	7	406	408	405	405	405	404	403	394	385	374	362	351	—
	8	415	417	414	408	408	406	415	413	403	394	403	402	—
	9	408	409	407	406	406	402	411	418	416	402	383	373	—
	10	421	418	418	418	415	411	412	413	411	409	390	378	—
	11	424	425	412	415	416	419	414	414	413	408	399	388	—
	12	426	422	421	419	418	413	402	394	403	405	407	413	—
	13	420	419	418	422	424	419	413	416	405	406	408	412	—
	14	421	420	421	419	419	422	418	409	412	414	413	408	—
	15	413	413	411	411	412	416	413	411	396	392	392	400	—
	16	420	420	418	418	416	422	411	401	394	385	382	375	—
	17	418	417	417	415	414	418	406	401	399	404	406	406	—
	18	415	416	414	413	412	417	414	416	395	394	397	409	—
	19	430	427	427	427	426	433	424	407	388	379	390	400	—
	20	428	428	426	426	425	425	420	405	388	377	381	388	—
	21	437	448	434	431	435	443	435	418	413	411	425	430	—
	22	428	429	424	425	424	424	428	432	415	397	394	404	—
	23	431	432	431	428	428	430	432	422	415	405	396	399	—
	24	418	424	417	422	420	419	423	426	409	393	383	393	—
	25	423	424	424	424	424	424	428	427	416	399	380	375	—
	26	420	423	419	420	422	418	424	417	414	388	351	348	—
	27	412	411	411	411	408	406	406	419	424	418	417	409	—
	28	425	424	424	423	422	421	423	409	404	406	400	400	—
	29	423	420	419	418	417	417	421	419	406	393	398	389	—
	30	425	424	424	424	424	424	420	418	417	413	411	424	—
	31	425	424	428	418	424	428	419	410	395	375	369	375	—
Hourly Means.		420.0	420.3	418.0	417.1	417.3	418.7	416.9	411.5	402.4	393.0	389.7	390.7	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JANUARY.	1	380	382	396	405	405	413	414	411	413	412	410	412	401.9
	2	400	415	428	428	424	421	420	418	414	414	414	418	411.3
	3	409	425	436	432	429	421	423	422	422	424	423	420	411.5
	4	394	410	417	419	418	418	417	417	418	418	419	418	408.8
	5	396	414	429	425	425	420	419	414	416	416	417	416	408.8
	6	372	378	394	405	408	408	405	405	409	409	412	410	401.4
	7	353	371	388	406	425	425	411	405	404	405	409	411	396.5
	8	413	422	427	425	418	416	414	413	412	410	408	407	411.8
	9	375	389	396	403	415	420	424	420	419	418	418	419	406.5
	10	383	395	406	413	418	430	442	441	427	420	424	419	413.8
	11	377	374	386	401	414	425	421	420	419	425	424	428	410.9
	12	420	422	428	425	438	440	430	425	423	424	420	424	419.3
	13	416	424	429	431	421	420	422	422	420	419	427	418	418.8
	14	400	396	398	413	417	417	417	416	414	412	414	413	413.5
	15	412	412	413	413	412	413	416	418	419	425	425	419	414.5
	16	372	375	386	399	409	418	420	420	422	420	420	419	405.9
	17	405	407	400	405	407	411	412	413	412	413	413	416	409.8
	18	424	427	438	442	437	435	431	430	430	432	430	430	420.8
	19	416	421	435	444	439	431	430	428	430	431	431	430	421.8
	20	412	419	435	453	448	437	430	452	465	456	439	441	425.2
	21	425	429	442	441	436	431	430	430	433	426	433	423	430.8
	22	418	438	453	453	449	444	433	435	434	438	439	435	428.9
	23	412	414	421	425	424	425	424	424	423	419	418	418	420.7
	24	409	413	420	424	429	430	430	424	427	424	423	422	417.6
	25	388	404	411	413	422	430	428	425	425	424	424	419	415.9
	26	357	379	401	416	419	414	416	414	416	416	414	413	405.8
	27	404	402	405	418	430	436	435	433	431	429	427	425	417.8
	28	405	395	397	412	423	424	425	426	425	424	419	423	415.8
	29	395	397	410	419	429	436	430	430	430	431	432	430	417.0
	30	435	436	433	430	425	425	427	424	424	428	427	425	424.5
	31	388	406	416	419	429	430	425	425	424	424	424	424	413.5
Hourly Means.		398.9	406.2	415.3	421.2	423.9	424.6	423.3	422.6	422.6	422.1	421.8	420.8	414.1

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30'.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY. 1	14.7	14.5	14.4	14.4	13.9	13.3	11.2	10.0	10.5	12.5	14.5	15.4	—
2	14.9	14.7	14.6	14.5	14.5	14.1	12.7	11.3	11.3	12.2	13.4	15.2	—
3	15.1	15.1	15.0	14.7	14.7	14.5	13.7	13.0	12.2	11.3	12.1	14.1	—
4	14.9	14.5	15.2	14.5	14.9	14.6	13.5	12.0	11.2	11.1	12.6	15.0	—
5	14.9	15.0	14.7	14.7	14.7	14.4	13.6	12.3	12.2	11.8	12.3	14.1	—
6	14.6	14.6	14.7	14.6	14.7	14.5	13.4	11.2	10.8	11.0	12.2	14.6	—
7	14.5	14.5	14.4	14.3	14.2	13.5	12.7	12.1	12.8	13.1	13.5	14.7	—
8	14.5	14.5	14.6	14.5	14.2	13.8	13.4	12.8	13.0	13.0	13.4	14.1	—
9	15.1	14.7	14.7	14.6	14.7	14.3	13.1	12.3	12.3	13.3	13.9	14.7	—
10	15.0	14.9	14.9	14.7	14.6	14.3	13.1	12.6	12.7	13.0	13.4	14.6	—
11	15.5	15.2	15.1	14.7	15.2	15.3	13.7	12.3	11.9	12.2	13.9	15.1	—
12	14.7	14.9	14.6	14.7	14.6	14.5	13.5	12.8	12.7	13.4	14.1	14.6	—
13	14.6	14.6	14.7	14.6	14.5	14.4	13.6	12.6	12.1	12.2	13.9	16.1	—
14	14.6	14.6	14.7	14.6	14.6	14.3	13.3	12.2	11.7	12.2	13.4	14.5	—
15	14.5	14.6	14.5	14.6	15.3	14.5	12.9	12.2	12.0	13.0	14.7	16.5	—
16	14.7	14.6	14.7	14.7	15.0	14.4	12.8	11.8	11.2	11.2	12.6	14.5	—
17	14.6	14.6	14.7	15.1	15.5	14.7	13.4	12.2	11.6	12.5	14.3	15.9	—
18	14.5	14.5	14.6	14.5	14.5	14.1	13.3	12.3	11.6	12.3	13.7	14.6	—
19	14.5	14.5	14.7	14.1	14.4	14.3	13.4	13.0	13.0	12.8	13.9	14.7	—
20	14.6	14.5	14.5	14.7	14.7	14.6	14.2	12.0	11.1	10.8	10.9	11.7	—
21	15.2	15.3	15.4	15.7	15.5	15.3	14.5	13.3	12.5	12.7	13.6	14.3	—
22	16.8	16.6	16.6	16.6	16.6	16.5	15.7	14.5	14.4	14.7	15.3	16.0	—
23	16.8	16.8	16.8	16.8	16.7	16.8	16.1	15.3	15.8	16.3	16.8	17.0	—
24	16.7	16.8	16.8	16.8	16.8	16.8	16.7	16.2	16.1	16.0	16.3	16.9	—
25	16.8	16.8	16.8	16.8	16.8	16.8	16.6	15.7	15.7	15.9	16.8	18.7	—
26	16.8	16.8	16.8	16.8	16.8	16.7	16.6	15.9	15.4	15.7	16.6	16.9	—
27	17.0	16.9	16.9	16.9	16.6	16.3	16.0	15.1	15.5	16.9	17.4	19.1	—
28	17.0	16.9	16.8	16.8	16.8	16.6	14.7	13.9	13.5	15.3	17.0	18.7	—
Hourly Means.	15.29	15.23	15.25	15.18	15.21	14.94	13.98	12.96	12.74	13.16	14.16	15.44	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY. 1	15.8	15.8	15.3	14.6	15.0	15.1	15.1	15.1	15.1	15.0	15.3	14.6	14.21
2	17.0	17.0	17.1	16.6	15.9	15.7	15.4	15.4	15.3	15.2	15.2	14.9	14.75
3	15.8	16.9	16.6	15.8	15.3	15.4	15.5	15.7	15.5	15.5	15.2	14.6	14.72
4	16.8	17.1	17.1	16.6	15.9	15.5	15.5	15.2	15.1	14.7	14.7	14.7	14.70
5	15.7	16.6	17.1	16.6	15.4	15.1	15.4	15.4	15.4	15.4	15.1	14.6	14.69
6	16.2	16.9	17.4	17.0	16.8	16.1	15.5	15.2	15.1	14.6	14.5	14.5	14.61
7	15.1	14.9	15.5	15.7	15.8	15.8	15.5	15.7	15.5	14.5	14.5	14.5	14.47
8	14.7	15.7	16.0	16.3	17.0	16.1	15.5	14.7	14.9	15.1	14.7	14.9	14.64
9	15.7	16.7	16.7	16.8	16.0	15.8	15.7	15.5	15.5	15.3	14.9	14.9	14.88
10	16.2	16.3	16.1	16.2	16.0	16.1	15.7	15.5	15.3	15.0	15.3	15.3	14.87
11	15.9	16.3	16.8	17.0	16.6	16.1	15.7	15.4	15.4	15.2	14.7	14.9	15.00
12	15.4	16.0	17.1	17.3	16.8	15.8	15.4	15.1	14.9	14.7	14.7	14.6	14.87
13	17.5	17.4	17.1	16.6	15.8	15.7	15.4	15.2	14.7	14.6	14.7	14.7	14.89
14	15.1	15.4	15.5	15.4	15.9	16.1	15.5	15.3	15.2	14.9	14.7	14.6	14.51
15	17.0	17.1	16.9	15.9	15.5	15.0	15.1	15.0	15.0	14.6	14.5	14.7	14.82
16	16.2	16.7	16.6	15.9	15.7	15.3	14.7	14.6	14.6	14.3	14.3	14.6	14.40
17	16.9	16.9	17.0	16.6	15.7	14.9	14.5	14.1	14.5	14.5	14.5	14.7	14.75
18	16.2	16.6	16.7	16.0	15.9	15.7	15.1	14.5	14.4	14.5	14.5	14.5	14.55
19	16.3	17.0	16.9	16.5	15.7	15.4	15.2	15.3	15.2	14.7	14.6	14.7	14.78
20	13.8	15.7	15.7	16.0	15.5	15.2	14.7	14.7	14.7	14.9	14.9	14.9	14.13
21	15.2	16.8	17.5	17.6	17.5	16.8	16.8	16.7	16.7	16.6	16.6	16.8	15.62
22	16.8	17.7	17.8	17.8	18.2	17.4	17.0	16.9	16.9	16.9	16.9	16.8	16.56
23	17.3	17.0	17.1	17.3	17.7	17.8	17.5	17.0	17.1	16.9	16.8	16.8	16.85
24	17.8	17.9	17.9	17.3	17.5	17.6	17.3	16.9	16.9	16.9	16.9	16.9	16.95
25	19.1	19.9	19.2	19.0	18.2	17.6	17.0	17.1	17.1	17.0	16.9	16.9	17.30
26	17.1	17.3	17.8	18.3	18.3	17.9	17.7	17.8	17.6	17.1	17.0	16.9	17.03
27	20.0	20.2	19.2	18.6	17.9	17.9	17.9	17.9	17.8	17.7	17.1	17.3	17.50
28	19.0	19.0	18.0	17.3	17.3	17.3	17.3	17.5	17.1	16.9	16.9	16.8	16.85
Hourly Means.	16.49	16.96	16.99	16.74	16.46	16.15	15.88	15.73	15.66	15.47	15.38	15.34	15.28

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	280	283	284	284	287	294	302	303	307	315	317	316	—
2	283	286	284	286	289	290	289	293	302	309	306	299	—
3	280	282	284	288	289	291	294	298	312	317	319	339	—
4	276	289	276	269	278	278	287	297	309	316	323	321	—
5	283	283	283	284	287	290	295	312	320	331	332	330	—
6	286	285	290	293	292	297	297	302	312	325	326	323	—
7	288	292	288	292	293	290	294	292	295	293	300	297	—
8	288	289	288	285	287	287	288	295	308	317	326	321	—
9	275	278	278	279	278	279	281	283	287	291	292	294	—
10	274	274	275	278	278	280	279	286	300	308	314	313	—
11	280	280	280	285	286	285	286	292	302	313	317	317	—
12	284	285	286	285	288	288	285	286	289	297	303	307	—
13	287	288	288	289	292	293	296	302	315	324	331	330	—
14	290	290	295	292	292	293	292	299	304	311	315	322	—
15	282	284	288	284	290	282	288	288	305	316	321	316	—
16	274	274	273	274	275	280	277	278	282	292	304	293	—
17	268	269	270	274	271	279	279	291	301	305	308	306	—
18	263	273	274	277	274	265	282	284	295	287	287	289	—
19	271	278	272	285	274	269	274	278	281	298	299	297	—
20	274	274	276	277	277	279	280	289	295	308	302	303	—
21	286	287	291	296	297	297	298	304	311	319	323	325	—
22	305	307	307	310	306	309	310	310	315	324	329	329	—
23	301	303	302	308	313	310	320	315	320	329	322	320	—
24	307	302	305	309	309	307	310	313	320	329	339	339	—
25	306	309	310	308	310	311	315	324	324	329	332	327	—
26	301	304	308	308	310	313	310	319	329	335	343	343	—
27	310	310	317	314	331	311	310	320	334	329	333	324	—
28	313	299	300	302	301	304	310	318	324	330	324	323	—
Hourly Means.	286.3	287.8	288.3	289.8	291.2	291.1	293.9	299.0	307.1	314.2	317.4	316.5	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	302	293	290	285	283	285	283	283	283	283	281	288	292.1
2	293	288	283	277	276	279	282	282	282	279	279	279	287.3
3	328	312	315	306	298	297	296	289	291	286	288	286	299.4
4	310	297	283	272	273	275	277	277	275	278	281	283	287.5
5	321	307	299	297	293	288	286	286	286	288	287	287	298.1
6	327	324	306	296	288	288	286	286	283	287	287	286	298.8
7	303	297	285	288	289	283	283	283	283	280	288	293	290.4
8	317	300	288	278	249	260	258	269	275	269	272	271	286.9
9	295	293	285	282	282	278	279	279	279	274	274	277	282.2
10	307	298	288	284	284	283	283	278	279	278	276	278	286.5
11	312	302	294	288	289	291	290	288	288	284	288	283	292.5
12	303	300	288	284	288	288	285	283	283	283	283	281	288.8
13	320	315	302	293	297	298	296	299	297	297	293	290	301.3
14	319	304	292	287	278	272	264	278	283	274	268	272	291.1
15	307	294	284	286	287	285	278	272	259	269	261	274	287.5
16	287	282	272	268	273	278	281	279	274	274	262	264	277.9
17	299	288	280	274	276	274	288	245	246	275	271	278	279.8
18	280	278	273	264	255	250	255	270	283	270	264	264	273.2
19	290	283	277	273	272	270	274	275	274	278	278	276	279.0
20	300	286	282	265	268	281	282	287	290	290	283	286	284.8
21	320	311	307	304	300	300	301	301	301	305	301	308	303.9
22	327	327	319	311	306	299	296	292	277	280	291	298	307.7
23	324	318	307	298	296	296	298	297	293	291	291	295	307.0
24	337	324	312	301	297	298	300	305	307	307	310	305	312.2
25	325	318	310	312	310	310	306	306	305	302	302	301	313.0
26	333	323	312	311	310	308	303	301	301	305	305	306	314.2
27	315	307	291	303	304	303	301	301	296	291	296	292	310.1
28	315	309	296	292	292	292	291	292	291	294	296	297	304.4
Hourly Means.	311.3	302.8	293.6	288.5	286.2	286.0	285.8	285.1	284.4	284.7	284.1	285.6	294.2

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
FEBRUARY.	1	425	424	423	423	422	424	426	424	413	396	396	400	—
	2	420	419	420	419	418	420	425	428	411	399	388	379	—
	3	426	425	423	420	420	422	426	431	427	424	393	364	—
	4	436	430	435	436	428	425	428	413	399	378	361	360	—
	5	417	416	414	413	412	411	418	389	378	363	345	339	—
	6	396	396	392	389	390	388	396	396	382	357	330	310	—
	7	394	392	393	391	390	394	394	394	388	383	372	371	—
	8	396	395	395	399	396	397	399	405	394	382	369	366	—
	9	403	400	400	400	400	402	403	401	397	386	375	370	—
	10	405	405	402	402	402	405	403	389	382	369	361	356	—
	11	394	393	394	391	391	394	400	397	390	366	346	343	—
	12	391	390	388	388	388	388	394	423	412	393	383	376	—
	13	413	413	412	411	409	410	412	414	397	386	382	372	—
	14	418	417	414	416	416	417	422	411	406	399	386	382	—
	15	409	406	405	406	405	416	413	418	402	394	392	389	—
	16	419	418	418	416	415	417	424	418	405	394	382	382	—
	17	418	417	416	411	416	413	418	417	411	401	394	395	—
	18	424	417	413	413	412	423	414	413	406	404	399	397	—
	19	418	413	416	409	417	418	424	431	424	408	396	394	—
	20	426	426	422	420	418	416	423	430	424	413	415	413	—
	21	411	409	405	400	399	400	408	417	416	415	378	374	—
	22	387	387	387	383	386	384	387	373	368	359	350	347	—
	23	377	375	376	374	371	372	371	384	382	378	378	389	—
	24	388	391	388	388	387	387	387	378	370	360	354	354	—
	25	387	387	386	387	387	384	383	374	366	358	349	345	—
	26	394	394	392	392	392	388	394	398	389	386	374	372	—
	27	397	399	396	400	392	405	410	404	392	387	384	383	—
	28	396	406	405	401	402	404	405	402	395	380	377	376	—
Hourly Means.		406.6	405.7	404.6	403.5	402.9	404.4	407.4	406.1	397.4	386.4	375.3	371.4	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
FEBRUARY.	1	399	405	411	418	417	415	418	423	423	423	424	419	416.3
	2	385	393	403	408	413	418	422	423	424	425	427	427	413.1
	3	365	393	405	425	430	426	428	430	429	432	433	430	417.8
	4	375	394	409	422	424	422	421	421	422	420	420	418	412.4
	5	342	352	374	395	402	403	400	398	397	396	397	397	390.3
	6	313	326	348	367	382	388	391	393	393	394	395	394	375.3
	7	377	387	398	400	397	400	397	396	397	401	397	394	391.5
	8	370	382	388	397	413	412	413	412	403	406	405	406	395.8
	9	373	377	387	394	400	403	403	402	403	406	406	406	395.7
	10	369	375	384	389	388	392	393	394	394	394	396	394	389.3
	11	349	358	370	380	389	388	389	391	392	393	390	393	382.5
	12	377	378	380	394	405	412	417	418	418	418	418	418	398.6
	13	386	400	415	419	418	417	418	417	417	416	418	419	408.0
	14	387	393	400	407	409	415	420	413	409	416	421	417	408.8
	15	393	401	416	420	422	419	424	426	435	426	428	418	411.8
	16	388	394	400	405	405	408	410	414	418	419	425	423	409.0
	17	400	400	400	412	416	418	409	436	439	417	416	413	412.6
	18	400	406	411	413	418	427	428	418	413	423	427	424	414.3
	19	392	397	406	417	424	426	424	424	424	424	425	425	415.7
	20	407	406	411	432	429	423	422	419	418	415	416	414	419.1
	21	356	356	366	370	382	387	387	387	388	387	388	387	390.5
	22	349	350	355	354	360	375	381	383	392	389	383	378	372.8
	23	390	392	395	396	393	392	394	396	396	396	400	396	386.0
	24	358	369	375	385	387	387	391	387	386	386	386	387	379.8
	25	351	360	374	382	389	393	396	396	396	396	396	396	379.9
	26	375	379	383	387	396	402	406	406	405	401	401	401	392.0
	27	389	404	415	414	410	406	410	407	410	411	405	407	401.5
	28	390	405	414	414	411	407	409	409	408	405	405	402	401.2
Hourly Means.		375.2	383.3	392.6	400.6	404.6	406.5	407.9	408.5	408.9	408.4	408.9	407.3	399.4

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30'.0 + THE NUMBERS IN THE TABLE.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	16.0	16.0	16.0	15.9	15.9	15.8	14.4	12.6	12.6	14.7	16.9	19.4	—
2	15.6	15.9	15.9	15.9	15.9	15.6	14.8	13.4	14.2	15.8	17.8	19.2	—
3	15.9	16.0	15.9	15.8	15.7	15.6	13.7	12.6	12.8	14.2	16.0	17.8	—
4	16.0	16.0	15.9	15.9	15.9	15.1	14.8	13.7	13.6	14.2	15.1	16.2	—
5	15.9	15.9	15.7	15.7	15.6	15.6	15.0	14.0	14.1	14.8	15.7	16.7	—
6	15.7	15.8	15.8	15.8	15.7	15.7	15.7	13.7	13.6	13.7	15.0	16.0	—
7	15.8	15.9	15.7	16.0	15.7	15.2	14.7	13.7	13.5	14.0	14.7	16.8	—
8	15.9	16.0	15.9	15.9	16.1	16.0	15.9	14.2	14.1	14.5	15.6	16.2	—
9	15.9	15.9	15.9	15.8	15.7	15.7	15.0	13.5	13.2	13.7	15.8	16.1	—
10	15.9	15.9	15.9	15.8	15.8	15.7	15.0	14.9	14.9	15.4	15.9	16.1	—
11	15.9	15.9	15.9	15.9	15.9	15.9	15.4	15.0	15.6	16.1	16.6	17.0	—
12	16.0	16.1	16.1	16.0	16.1	16.0	15.8	14.8	14.9	15.2	15.8	16.0	—
13	15.9	15.9	15.7	15.7	15.8	15.8	15.7	14.5	14.8	15.4	16.0	16.4	—
14	15.9	16.0	15.8	15.7	15.9	16.9	15.9	14.5	14.7	16.0	16.1	16.8	—
15	15.9	15.9	15.7	15.7	15.7	15.7	15.7	15.1	15.2	15.9	17.0	17.8	—
16	15.9	15.9	15.9	15.9	15.8	15.8	14.8	13.9	14.2	15.1	15.9	17.0	—
17	15.9	16.0	15.9	16.0	15.9	15.9	15.3	14.0	13.6	14.8	15.6	16.6	—
18	16.2*	16.2*	16.0*	15.7*	16.1*	15.7*	16.6*	15.4*	14.8	15.4	16.4	17.7	—
19	15.8	15.9	15.8	15.7	15.3	15.0	14.2	12.7	12.4	12.8	14.5	15.9	—
20	15.8	15.9	15.8	15.7	15.7	15.8	15.4	14.2	13.9	14.4	14.8	16.1	—
21	15.8	16.0	15.8	15.8	15.8	15.9	15.1	13.2	12.4	12.6	13.9	15.2	—
22	15.9	15.9	15.8	15.9	15.7	15.9	15.8	14.5	14.1	14.5	15.2	16.2	—
23	15.9	15.9	15.9	16.0	16.0	16.1	15.9	14.8	13.7	14.2	15.1	16.1	—
24	15.9	15.9	15.9	15.9	15.9	15.9	15.7	14.4	13.5	13.6	14.9	15.9	—
25	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.0	14.9	15.6	16.0	16.7	—
26	15.8	15.8	15.9	15.8	15.8	15.8	15.9	14.9	14.1	14.7	14.9	15.8	—
27	15.8	15.8	15.8	15.7	15.1	14.9	15.0	14.7	14.0	14.8	16.4	16.7	—
28	15.7	15.8	15.8	15.6	15.1	14.8	13.9	13.1	14.0	15.3	16.4	17.0	—
29	15.9	16.2	15.2	15.9	15.6	15.7	14.9	14.7	14.2	14.9	15.6	14.8	—
30	15.9	15.7	15.7	15.9	15.8	15.4	15.1	14.2	14.2	15.0	16.0	16.1	—
31	15.9	15.9	15.8	15.9	15.9	15.9	15.4	14.7	14.1	14.4	15.2	16.1	—
Hourly Means.	15.88	15.93	15.83	15.83	15.77	15.70	15.24	14.15	14.00	14.70	15.70	16.59	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	19.3	19.0	18.1	17.0	16.8	16.9	17.0	17.0	16.4	15.9	16.0	15.9	16.31
2	18.8	18.2	17.6	16.8	16.6	16.8	16.1	16.1	16.0	16.0	16.0	15.9	16.29
3	18.4	18.3	18.0	17.0	16.9	16.8	16.6	16.1	16.1	16.0	16.0	15.9	16.00
4	17.6	18.2	18.3	18.0	17.3	17.0	16.6	16.1	15.8	15.8	15.9	15.9	16.04
5	18.0	18.1	18.1	18.2	17.6	16.9	16.8	16.1	15.9	15.9	15.9	15.8	16.17
6	16.8	18.4	17.7	18.1	18.3	17.3	17.0	16.0	16.6	15.8	15.4	15.8	16.06
7	18.1	18.4	18.2	17.7	17.0	17.0	16.2	16.0	15.9	15.9	15.9	15.9	16.00
8	17.4	18.2	18.4	17.8	17.2	16.2	16.2	16.1	16.0	16.0	15.9	15.9	16.15
9	16.5	17.0	17.8	17.5	17.0	16.6	16.1	16.0	15.9	15.9	15.9	15.9	15.85
10	16.9	17.0	17.4	17.4	17.2	16.9	16.5	16.1	16.1	16.0	16.0	16.0	16.11
11	17.0	17.2	17.7	18.2	17.8	17.0	16.5	16.2	16.1	16.1	16.0	16.1	16.38
12	15.9	16.0	16.7	16.4	16.2	16.1	16.1	16.1	15.9	15.9	15.9	15.9	15.91
13	17.0	17.5	18.0	17.6	17.2	16.9	16.5	16.1	16.1	15.9	15.9	15.9	16.18
14	16.7	16.1	16.4	16.1	16.5	16.1	16.2	16.0	15.9	15.9	15.9	15.9	16.00
15	17.5	16.6	16.2	16.4	16.4	16.0	16.0	16.0	16.0	16.0	15.9	15.9	16.09
16	17.3	17.3	17.3	17.0	16.9	16.4	16.2	15.9	16.2	16.0	16.1	16.0	16.03
17	17.2	17.0	17.0	16.5	16.1	16.1	16.1	16.0	16.0	16.0	16.1*	15.8*	15.89
18	18.1	18.2	17.8	17.2	16.1	15.9	15.9	15.9	15.9	15.9	15.9	15.9	16.29
19	17.0	17.0	17.3	17.0	16.7	16.5	16.1	16.1	16.0	15.9	15.9	15.9	15.56
20	17.0	18.0	17.5	17.2	16.7	16.2	16.2	16.1	15.9	15.9	15.7	15.9	15.91
21	16.1	17.2	17.3	17.0	16.6	16.2	16.1	16.0	15.8	15.9	15.9	15.9	15.56
22	17.7	18.3	18.2	16.9	16.5	16.1	15.9	16.1	16.1	15.9	15.9	16.0	16.04
23	17.0	17.5	18.0	17.4	17.2	16.8	16.2	16.1	16.0	15.9	15.9	15.9	16.06
24	16.9	17.3	16.8	16.0	16.0	16.0	16.0	16.0	15.8	15.8	15.8	15.9	15.74
25	17.2	17.2	17.2	16.9	16.5	16.0	15.9	15.8	15.9	15.8	15.8	15.7	16.06
26	16.1	16.0	16.2	16.1	16.1	15.9	15.8	15.8	15.9	15.8	15.9	15.9	15.70
27	16.9	16.1	16.0	15.9	15.9	15.9	15.9	15.9	15.9	15.7	15.6	15.8	15.68
28	17.0	17.0	17.0	16.7	15.9	15.9	15.3	15.0	15.9	15.8	15.7	15.0	15.61
29	15.7	15.8	15.6	16.1	16.5	15.9	15.9	15.1	15.9	15.3	15.9	15.3	15.53
30	16.1	16.4	17.0	16.5	16.0	15.4	15.8	15.8	15.8	15.7	15.7	15.8	15.71
31	16.6	16.6	16.9	16.2	16.1	16.0	15.9	15.9	15.9	15.9	15.9	15.9	15.79
Hourly Means.	17.15	17.33	17.35	16.99	16.70	16.38	16.18	15.98	15.99	15.88	15.88	15.85	15.96

* From Wild's Magnetometer.

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

MARCH. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	296	300	301	305	309	301	326	334	344	348	334	306	—
2	282	274	285	282	287	291	298	304	310	311	312	317	—
3	286	285	301	294	291	291	296	304	316	320	328	330	—
4	295	296	298	300	297	297	301	312	320	329	330	327	—
5	310	307	312	311	315	315	320	318	330	339	343	348	—
6	306	309	305	316	320	325	322	332	338	343	330	334	—
7	278	292	286	285	288	293	291	301	305	309	314	307	—
8	286	286	287	294	294	300	294	302	307	316	310	314	—
9	291	295	291	291	291	290	292	297	302	310	320	320	—
10	291	292	295	295	297	299	301	309	316	323	329	329	—
11	296	296	298	298	297	301	301	305	316	323	329	329	—
12	300	300	301	301	303	304	303	309	317	323	329	331	—
13	306	309	310	305	301	302	301	309	324	331	337	338	—
14	293	296	291	296	280	291	296	305	308	305	314	308	—
15	273	291	285	287	292	297	296	305	313	324	323	315	—
16	290	291	292	290	291	295	304	318	328	334	338	330	—
17	287	286	290	288	290	291	299	314	322	333	338	334	—
18	285*	284*	306*	270*	267*	291*	270*	278*	282	286	285	288	—
19	276	277	281	284	291	292	296	304	308	310	309	310	—
20	285	285	287	290	288	286	294	300	307	310	320	324	—
21	282	277	290	282	286	282	288	304	316	324	324	322	—
22	274	277	277	275	282	287	295	307	318	324	342	335	—
23	267	272	277	275	278	273	286	300	305	316	328	327	—
24	282	282	286	287	289	291	296	308	320	325	329	329	—
25	290	290	291	291	293	295	294	296	303	310	316	310	—
26	284	286	284	284	286	291	295	308	321	329	334	333	—
27	291	285	285	291	291	290	296	305	320	323	319	319	—
28	305	296	291	296	301	300	305	315	318	314	310	280	—
29	267	281	284	266	272	278	278	287	296	298	291	291	—
30	277	281	281	273	281	286	295	306	318	319	319	311	—
31	277	277	276	277	282	283	288	294	304	306	310	309	—
Hourly Means.	287.4	288.9	291.1	289.6	291.3	293.8	297.3	306.1	314.6	319.8	322.4	319.5	—

MARCH. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	299	296	299	290	282	282	263	233	250	259	267	277	295.9
2	310	295	282	282	288	277	286	286	288	285	282	285	291.6
3	323	306	292	287	289	291	289	291	291	294	291	292	299.1
4	318	310	302	301	298	295	281	277	295	301	304	304	303.7
5	334	330	321	304	292	290	290	290	298	301	303	304	313.5
6	324	310	292	301	277	254	267	285	272	293	266	277	304.1
7	282	269	265	272	272	272	278	279	276	281	277	282	285.6
8	308	294	281	291	291	291	291	289	288	287	282	286	294.5
9	313	301	290	287	286	287	291	291	291	291	291	291	295.8
10	329	319	301	297	297	293	291	291	292	294	293	295	302.8
11	325	314	301	295	296	293	291	292	291	294	296	298	303.1
12	322	311	307	310	308	300	297	297	296	294	294	300	306.5
13	318	301	287	278	278	277	274	291	288	289	291	289	301.4
14	296	295	287	290	290	286	285	286	282	278	272	277	292.0
15	315	308	300	296	292	287	282	280	285	282	295	286	296.2
16	321	301	296	298	294	293	290	290	282	282	282	294	301.0
17	324	309	299	300	300	292	300	300	296	293	293*	305*	303.5
18	285	272	263	257	263	271	271	272	272	276	272	276	276.8
19	306	301	291	286	285	286	286	286	285	286	285	283	291.8
20	315	303	291	287	286	283	277	273	276	277	279	283	291.9
21	311	295	287	285	281	278	280	273	272	275	278	282	290.6
22	325	305	263	262	265	266	276	273	263	272	272	271	287.8
23	312	296	282	285	278	276	275	268	273	282	284	282	287.4
24	315	315	304	291	291	277	270	275	282	282	282	285	295.5
25	301	295	280	275	275	282	282	279	280	282	282	286	290.8
26	320	306	296	289	286	286	286	291	287	289	278	286	297.3
27	309	300	291	283	283	281	282	282	282	299	291	294	295.5
28	267	260	255	258	259	269	258	258	264	261	253	277	282.1
29	285	272	269	267	267	273	273	268	253	266	264	296	276.8
30	296	280	276	273	276	280	280	276	272	279	272	280	287.0
31	301	291	286	281	282	284	282	277	277	282	281	280	287.0
Hourly Means.	310.0	298.7	288.3	285.7	284.1	282.3	281.4	280.6	280.6	284.1	282.3	287.2	294.5

* From Wild's Magnetometer.

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 019700 + THE NUMBERS IN THE TABLE.

MARCH. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	402	400	399	398	398	406	396	405	387	365	356	369	—
2	401	408	401	402	401	401	406	410	396	378	360	356	—
3	403	403	394	397	401	402	406	401	380	361	350	356	—
4	402	400	398	397	400	401	401	389	377	366	355	355	—
5	387	387	386	387	384	385	392	400	385	370	364	360	—
6	392	391	392	385	383	381	387	383	374	361	360	360	—
7	403	392	396	396	393	395	400	392	382	374	361	360	—
8	396	396	396	392	392	390	402	416	407	398	390	388	—
9	415	410	415	414	414	415	420	405	396	387	369	367	—
10	404	401	401	401	400	398	397	401	392	388	382	382	—
11	411	411	411	410	411	409	406	392	376	365	360	365	—
12	406	405	405	405	404	402	405	393	386	375	369	361	—
13	399	398	398	402	405	405	405	402	388	371	356	355	—
14	397	397	401	400	409	397	402	412	399	392	386	388	—
15	415	404	409	408	406	405	406	400	388	380	378	380	—
16	409	408	408	409	409	408	406	379	369	360	352	356	—
17	398	400	396	397	398	397	400	410	399	384	374	374	—
18	415*	411*	484*	439*	437*	411*	438*	457*	451	432	416	410	—
19	441	439	437	437	434	434	442	445	435	420	405	401	—
20	439	438	436	434	434	436	438	445	435	428	415	407	—
21	443	446	438	442	440	442	449	440	425	417	412	409	—
22	441	438	438	437	432	429	433	436	422	410	401	401	—
23	446	442	437	439	435	437	434	429	428	410	396	396	—
24	446	446	446	443	443	442	446	447	437	419	410	410	—
25	443	443	442	443	442	442	443	442	429	420	411	416	—
26	446	445	446	446	446	442	442	432	415	406	397	402	—
27	442	446	447	442	442	447	442	442	424	406	406	405	—
28	437	439	446	442	442	445	445	438	425	420	419	434	—
29	455	450	445	459	457	455	457	460	447	437	436	439	—
30	457	455	457	460	458	455	456	450	435	424	419	427	—
31	461	460	460	460	456	456	460	442	432	418	405	403	—
Hourly Means.	421.0	419.6	421.5	420.1	419.5	418.4	421.4	419.2	407.1	394.9	386.1	386.8	—

MARCH. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	387	400	406	415	416	410	421	440	431	420	410	405	401.8
2	369	392	409	410	409	412	407	406	405	407	406	405	398.2
3	369	389	410	415	409	405	406	406	406	405	405	404	395.1
4	356	366	374	381	388	396	405	407	397	392	390	390	386.8
5	365	378	376	387	401	409	405	405	401	396	394	392	387.3
6	366	377	392	391	403	429	413	401	410	397	415	407	389.6
7	369	378	384	387	393	398	398	400	405	400	402	400	389.9
8	392	402	411	414	418	419	417	419	419	419	424	421	405.8
9	374	382	389	401	405	408	405	405	405	405	405	405	400.7
10	389	400	409	413	411	415	415	415	414	414	415	412	402.9
11	373	385	396	405	411	414	414	413	411	410	407	406	398.8
12	363	374	387	395	396	405	407	408	409	409	407	404	395.0
13	365	376	393	403	407	409	409	400	399	401	399	401	393.6
14	398	397	400	401	409	414	415	415	417	418	419	415	404.1
15	383	387	399	404	408	414	416	419	414	414	409	410	402.3
16	373	388	392	395	396	397	401	403	405	405	404	399	393.0
17	382	395	403	405	407	410	409	409	410	410	408*	385*	398.3
18	412	425	440	447	448	444	446	446	447	446	446	442	437.1
19	405	417	429	434	437	438	442	442	443	442	442	442	432.6
20	414	425	437	442	446	447	450	451	450	448	449	443	437.0
21	418	430	433	433	437	437	438	442	442	441	437	437	434.5
22	411	429	460	460	456	446	442	442	446	445	442	442	435.0
23	405	417	433	441	450	452	451	454	451	446	444	446	434.1
24	419	429	438	446	446	452	460	455	447	447	447	446	440.3
25	427	435	450	455	454	450	450	451	449	446	446	446	440.6
26	418	430	437	439	447	450	447	446	446	442	451	449	436.1
27	420	441	452	455	455	455	451	451	451	441	442	442	439.5
28	443	451	455	460	458	456	464	469	459	459	462	451	446.6
29	447	455	457	456	460	460	462	466	474	466	464	447	454.6
30	438	443	443	451	461	463	464	467	469	465	466	460	451.8
31	411	422	429	439	443	446	447	450	451	446	446	446	441.2
Hourly Means.	395.5	406.9	416.9	421.9	425.3	427.7	428.3	429.1	428.5	425.9	425.9	422.6	416.3

* From Wild's Magnetometer.

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	15.9	15.9	15.9	16.0	15.9	15.9	15.4	14.0	13.3	13.9	15.3	15.9	—
2	15.8	15.7	15.8	15.8	15.8	15.7	15.1	13.7	13.5	14.0	15.6	17.0	—
3	15.9	15.9	15.7	15.8	15.9	15.9	15.9	14.9	14.0	14.5	15.3	16.0	—
4	15.4	15.4	15.7	15.6	15.6	15.3	15.1	14.2	13.9	14.7	15.6	16.8	—
5	15.9	15.9	15.8	15.8	15.8	15.7	15.2	13.9	12.8	13.1	14.8	16.7	—
6	15.8	15.8	15.8	15.8	15.8	15.7	15.0	13.6	13.3	13.6	15.0	16.7	—
7	15.9	15.8	15.8	15.8	15.8	15.8	15.3	13.5	12.5	12.5	13.4	14.2	—
8	15.7	15.8	15.8	15.8	15.4	15.3	15.1	14.1	13.9	15.4	16.1	16.6	—
9	15.8	15.9	16.0	15.7	15.8	15.9	15.9	15.4	14.8	14.8	15.4	15.8	—
10	15.6	15.3	15.8	15.1	15.3	15.0	15.7	14.7	14.8	15.9	16.4	17.0	—
11	15.8	15.8	15.9	15.2	15.1	15.4	15.2	14.3	13.6	13.9	14.3	14.5	—
12	15.8	15.9	15.9	15.9	15.9	16.0	16.2	14.5	13.6	13.6	14.0	14.7	—
13	15.4	15.8	15.9	15.9	15.9	16.0	15.9	14.8	14.2	14.4	15.1	15.9	—
14	15.7	15.9	15.8	15.7	15.7	15.3	15.1	13.7	14.2	14.4	15.3	16.0	—
15	15.7	15.9	15.9	15.8	15.8	15.6	15.8	14.8	14.7	14.7	15.0	15.6	—
16	15.7	15.8	15.7	15.7	15.7	15.7	15.8	14.9	14.8	15.0	15.8	16.0	—
17	15.9	15.9	15.9	15.9	15.7	15.7	15.6	14.4	13.9	14.7	15.4	16.0	—
18	15.7	15.8	15.8	15.7	15.6	15.4	15.9	14.8	14.2	14.4	15.3	16.4	—
19	15.8	15.9	15.9	15.9	15.8	15.4	15.3	14.0	14.0	14.5	15.0	15.4	—
20	15.4	15.6	15.6	15.6	15.3	15.4	15.8	14.7	13.9	14.7	16.1	17.2	—
21	15.7	15.7	15.7	15.7	15.7	15.7	15.9	14.7	14.5	14.5	15.4	16.3*	—
22	15.6*	15.6*	15.4*	15.5*	15.6*	15.5*	15.5*	15.0*	14.8	14.7	14.8	15.4	—
23	15.9	15.9	15.9	15.9	15.9	16.1	16.0	14.7	13.6	13.4	13.7	14.5	—
24	15.4	15.9	15.8	15.8	15.9	16.1	16.8	15.4	14.0	14.0	14.0	14.5	—
25	15.6	15.7	15.7	15.8	15.8	16.0	16.1	14.5	13.9	14.4	15.0	15.3	—
26	15.8	15.9	16.1	15.8	16.1	17.0	17.0	15.8	15.4	15.8	15.7	15.9	—
27	15.9	16.0	16.0	16.1	15.9	15.9	15.9	15.1	14.7	14.9	15.7	15.9	—
28	15.3	15.8	15.6	15.7	15.8	15.7	15.2	15.4	15.3	16.0	17.0	16.5	—
29	15.3	15.7	15.4	15.7	15.3	15.7	16.1	15.9	15.3	15.6	15.3	14.9	—
30	15.2	15.0	15.0	15.1	15.2	15.4	15.8	15.2	14.8	14.5	14.3	14.2	—
Hourly Means.	15.68	15.76	15.77	15.72	15.69	15.71	15.69	14.62	14.14	14.48	15.17	15.79	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL. 1	15.9	15.9	16.0	15.9	15.8	15.8	15.8	15.9	15.8	15.7	15.7	15.7	15.55
2	17.2	17.0	17.2	16.8	16.2	16.0	16.1	15.9	15.9	15.9	15.9	15.9	15.81
3	17.0	18.1	17.8	16.6	15.7	15.7	15.8	15.9	15.8	15.6	15.7	15.3	15.86
4	17.3	17.3	17.3	16.9	15.9	15.7	15.7	15.8	15.6	15.4	15.7	15.8	15.74
5	17.5	17.4	16.8	15.9	15.6	15.7	15.8	15.8	15.8	15.8	15.8	15.7	15.63
6	17.3	17.3	17.0	16.2	16.0	15.9	15.9	15.9	15.9	15.8	15.9	15.9	15.70
7	15.4	16.0	15.9	15.9	15.9	15.9	15.9	16.0	15.8	15.7	15.4	15.8	15.25
8	17.0	18.2	17.4	17.2	16.2	15.9	15.8	15.6	15.8	14.8	15.7	15.7	15.85
9	15.8	16.1	16.1	15.9	15.8	15.9	15.8	15.8	15.8	15.3	15.4	15.2	15.67
10	17.0	16.8	16.2	16.4	16.0	16.0	15.9	15.8	15.6	15.7	15.6	15.7	15.80
11	14.8	15.6	15.8	15.9	16.4	16.1	16.0	15.9	15.8	15.7	15.7	15.6	15.35
12	14.7	14.8	15.3	15.9	16.1	16.2	16.0	15.9	15.9	15.9	15.8	15.6	15.42
13	15.9	15.9	15.9	15.9	16.1	16.1	15.9	15.9	15.9	15.7	15.7	15.3	15.64
14	16.5	16.1	15.8	15.9	15.9	15.8	15.7	15.6	15.6	15.0	15.7	15.6	15.50
15	16.0	16.1	16.2	16.6	16.1	15.3	15.8	15.8	15.7	15.6	15.8	15.6	15.66
16	15.9	15.7	15.9	16.0	16.1	15.8	15.6	15.6	15.4	15.6	15.7	15.8	15.65
17	16.9	17.0	17.3	17.0	16.4	15.9	15.7	15.6	15.6	15.4	15.3	15.4	15.77
18	16.2	16.4	16.7	16.7	16.8	16.1	15.9	15.9	15.7	15.7	15.9	15.9	15.79
19	16.1	16.6	16.6	16.6	16.4	16.0	15.7	15.7	15.6	15.4	15.3	15.4	15.60
20	17.4	17.0	16.8	16.7	16.4	15.9	15.7	15.6	15.6	15.2	15.7	15.6	15.79
21	16.5*	16.5*	16.9*	16.9*	16.1*	15.6*	15.3*	15.3*	15.3*	15.2*	14.8*	14.4*	15.60
22	16.1	17.0	17.6	17.4	16.9	15.8	15.3	15.2	15.1	15.2	15.7	15.4	15.67
23	15.8	16.0	16.2	16.6	16.5	15.9	15.7	15.7	15.6	15.3	15.4	15.3	15.48
24	15.4	15.9	16.2	16.1	16.0	15.7	15.8	15.7	15.6	15.6	15.6	15.6	15.53
25	15.2	15.0	15.3	15.8	16.4	15.9	15.8	15.1	15.6	15.1	15.6	15.7	15.43
26	15.8	16.0	16.1	16.0	16.0	15.8	15.6	15.4	15.7	15.4	15.7	15.9	15.90
27	15.7	15.8	16.2	16.4	16.0	15.7	15.3	15.1	15.1	15.0	15.3	15.4	15.63
28	15.6	15.6	16.1	16.1	16.1	15.9	15.6	14.8	14.9	15.0	14.8	15.4	15.63
29	14.7	14.7	15.1	15.1	15.3	14.9	15.1	14.9	14.9	15.0	14.9	15.1	15.25
30	14.8	15.2	15.8	15.8	15.8	15.4	15.6	15.3	15.3	15.3	15.3	15.1	15.18
Hourly Means.	16.11	16.30	16.38	16.30	16.10	15.81	15.72	15.61	15.59	15.43	15.55	15.53	15.61

* From Wild's Magnetometer.

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL.	1	292	292	289	292	301	301	306	314	326	334	335	326	—
	2	292	292	286	301	292	294	299	306	326	338	344	323	—
	3	286	285	295	292	293	296	301	313	340	349	349	345	—
	4	288	281	279	287	284	290	292	303	311	320	333	329	—
	5	291	287	287	288	292	296	301	306	319	329	339	332	—
	6	292	292	292	292	293	296	300	310	318	325	337	338	—
	7	292	292	292	294	293	296	301	309	323	342	355	355	—
	8	268	273	295	302	301	296	308	315	304	288	296	293	—
	9	275	272	286	292	282	282	287	291	311	320	320	320	—
	10	245	249	267	269	274	277	286	301	306	317	315	300	—
	11	277	281	278	277	278	283	291	304	311	318	322	319	—
	12	282	282	287	292	287	291	292	306	316	319	326	319	—
	13	287	292	289	291	287	298	299	305	310	311	307	298	—
	14	272	281	278	279	283	289	296	302	311	323	325	324	—
	15	284	287	286	288	291	290	287	301	308	321	327	321	—
	16	286	286	287	291	291	292	297	306	319	332	334	325	—
	17	292	292	295	299	305	297	306	315	325	330	336	325	—
	18	287	287	289	291	292	294	299	311	320	324	331	320	—
	19	285	286	287	290	290	292	298	306	318	334	340	344	—
	20	278	278	278	281	283	287	299	317	334	337	339	334	—
	21	283	282	286	286	290	292	300	308	315	324	330	332	—
	22	267	276	284	278	285	291	297	310	311	315	312	310	—
	23	280	281	287	288	287	292	300	307	318	329	326	323	—
	24	271	273	271	273	271	276	286	291	308	311	315	308	—
	25	281	282	283	286	290	296	306	323	335	339	339	330	—
	26	272	268	269	289	283	290	306	301	305	307	306	283	—
	27	268	269	271	276	277	282	287	294	309	315	315	311	—
	28	278	278	282	286	296	305	304	307	319	316	315	302	—
	29	267	269	273	277	280	282	292	305	318	324	325	320	—
	30	278	280	281	287	286	287	291	301	307	316	317	317	—
Hourly Means.		279.9	280.8	283.6	287.1	287.9	291.0	297.1	306.3	316.7	323.6	327.0	320.9	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL.	1	318	301	296	297	303	297	288	280	282	282	286	292	301.3
	2	312	295	292	293	294	296	292	278	281	284	286	286	299.3
	3	339	324	299	283	293	302	296	296	301	297	295	291	306.7
	4	316	301	291	287	288	286	287	287	290	290	287	295	295.9
	5	320	311	305	296	291	290	289	291	290	290	291	292	301.0
	6	323	309	297	292	290	291	291	292	287	287	290	291	301.0
	7	342	330	323	291	302	297	283	273	275	271	280	267	303.3
	8	282	242	236	235	245	254	256	262	258	277	265	270	275.9
	9	314	303	296	289	282	270	273	277	270	277	273	257	288.3
	10	294	289	286	270	273	268	269	273	270	273	274	276	280.0
	11	309	293	282	278	274	273	277	277	278	279	281	282	288.4
	12	304	292	287	278	278	282	283	283	282	283	282	281	292.3
	13	295	284	279	279	279	281	278	282	274	275	272	286	289.1
	14	314	301	295	292	290	287	286	287	287	297	289	282	294.6
	15	313	305	292	286	286	291	287	288	288	288	287	286	295.3
	16	315	302	295	291	292	297	297	297	295	294	291	291	300.1
	17	311	305	295	286	287	291	292	291	295	292	293	295	302.1
	18	311	301	293	288	290	292	288	284	283	286	286	285	297.2
	19	329	310	295	282	275	273	276	271	273	270	275	277	294.8
	20	311	300	287	278	272	271	276	277	278	278	281	283	293.2
	21	320	303	288	282	279	282	285	286	288	278	273	269	294.2
	22	302	296	291	287	284	287	283	280	280	281	281	281	290.4
	23	301	296	288	281	281	276	276	273	266	264	268	276	290.2
	24	297	292	286	277	273	277	276	276	276	277	278	280	284.1
	25	311	304	297	287	272	282	279	248	258	268	268	272	293.2
	26	283	283	271	259	255	259	261	261	263	263	264	267	277.8
	27	303	292	276	269	273	274	277	278	278	280	277	277	284.5
	28	304	301	296	278	278	269	273	274	273	262	270	271	289.0
	29	310	294	282	278	278	282	282	282	281	269	273	275	288.3
	30	313	306	291	282	275	276	279	279	279	278	278	279	290.4
Hourly Means.		310.5	298.8	289.6	281.7	281.1	281.8	281.2	279.4	279.3	279.7	279.8	280.4	292.7

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	412	412	414	412	408	409	414	433	424	410	405	414	—
2	428	428	431	422	428	428	433	431	412	392	382	393	—
3	432	432	425	426	427	424	427	425	410	395	393	396	—
4	433	437	434	429	429	428	430	427	418	405	392	392	—
5	428	429	429	428	425	424	426	437	424	406	386	389	—
6	432	432	432	432	433	432	437	446	433	415	396	395	—
7	436	437	436	434	434	433	436	436	423	401	383	387	—
8	440	437	425	421	424	428	425	417	414	412	408	415	—
9	428	430	428	420	429	428	431	443	428	419	417	420	—
10	459	455	442	440	437	436	431	422	419	416	417	422	—
11	436	435	436	436	435	433	429	434	424	414	413	419	—
12	439	440	439	436	441	438	443	453	453	447	436	440	—
13	443	442	444	443	446	439	444	442	430	424	417	422	—
14	444	438	439	440	438	435	435	434	424	415	413	411	—
15	444	443	444	444	444	444	445	440	432	420	410	415	—
16	445	444	442	441	443	441	442	439	428	425	425	431	—
17	442	441	440	439	437	440	441	439	426	418	414	413	—
18	445	446	444	444	444	441	442	441	433	422	402	409	—
19	448	446	445	443	444	442	439	429	415	403	402	399	—
20	443	442	442	441	439	436	436	429	424	416	412	414	—
21	433	434	433	432	430	427	424	424	416	407	408	413	—
22	463	454	450	454	450	445	443	433	425	424	432	425	—
23	445	445	442	442	443	439	439	430	414	401	399	401	—
24	441	439	441	441	442	437	434	448	440	433	428	427	—
25	442	442	441	441	439	434	436	437	427	413	411	419	—
26	445	447	447	437	442	438	434	450	443	437	438	442	—
27	445	445	445	444	444	442	443	450	440	433	428	431	—
28	446	445	443	442	438	434	434	431	422	421	426	434	—
29	447	445	443	442	442	441	438	440	437	438	441	446	—
30	444	442	442	439	441	440	439	436	428	418	420	422	—
Hourly Means.	440.3	439.5	437.9	436.2	436.5	434.5	435.0	435.9	426.2	416.7	411.8	415.2	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
APRIL. 1	423	431	433	433	433	434	438	443	439	438	435	430	424.0
2	401	419	422	432	436	433	435	442	441	436	434	433	423.8
3	399	416	439	450	443	431	437	434	433	434	434	434	424.8
4	400	410	422	431	434	434	433	433	433	431	432	426	423.9
5	394	406	419	431	440	440	439	438	439	437	436	433	424.3
6	405	422	428	437	441	442	443	443	443	440	437	437	430.5
7	393	413	429	441	437	437	446	448	444	446	437	442	428.7
8	427	451	453	455	444	439	442	438	437	433	433	430	431.2
9	429	442	446	452	452	454	451	446	449	446	444	452	436.8
10	429	434	437	443	444	446	447	443	443	439	437	437	436.5
11	423	427	433	439	443	446	445	445	444	442	441	439	433.8
12	443	445	446	447	449	450	449	449	450	448	448	447	444.8
13	423	429	432	435	438	439	443	442	446	445	446	440	437.3
14	424	436	443	442	446	450	451	450	448	442	446	447	437.1
15	419	421	426	437	447	449	449	449	449	447	446	446	437.9
16	440	446	446	449	449	446	445	445	446	446	446	444	441.4
17	419	422	426	436	442	446	447	448	447	449	447	444	436.0
18	420	428	436	444	447	450	451	454	454	451	449	449	439.4
19	406	419	432	442	446	450	449	451	449	449	447	444	435.0
20	423	424	428	435	442	445	441	439	438	437	436	433	433.1
21	429	441	455	460	463	463	461	458	458	464	469	464	440.3
22	427	428	435	438	446	451	450	450	449	447	446	445	442.1
23	414	422	427	433	442	448	446	446	448	449	446	439	433.3
24	428	434	439	447	451	450	449	448	447	446	444	442	440.7
25	439	445	441	441	451	450	450	468	457	450	447	445	440.3
26	447	444	450	456	459	457	456	455	451	451	449	444	446.6
27	433	434	440	446	448	453	451	451	450	448	448	447	443.3
28	441	442	447	452	451	456	455	453	450	455	449	446	442.2
29	448	454	460	456	455	454	451	451	451	455	452	447	447.3
30	424	427	435	443	452	452	449	450	450	449	449	446	439.0
Hourly Means.	422.3	430.4	436.8	442.8	445.7	446.5	446.6	447.0	446.1	445.0	443.7	441.7	435.8

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30′.0 + THE NUMBERS IN THE TABLE.

MAY.	Mean Batavia Time. 1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	15.8	15.6	15.8	15.9	16.0	15.9	16.4	15.9	15.2	15.2	15.3	15.4	—
2	15.9	16.0	16.0	16.1	16.0	16.3	16.8	16.2	15.2	15.2	15.8	16.2	—
3	16.0	16.0	16.0	16.1	16.1	16.1	16.1	15.0	14.7	15.0	15.2	15.3	—
4	15.9	16.0	16.0	16.1	15.8	15.8	15.2	15.0	14.3	15.2	16.0	16.6	—
5	16.1	16.3	16.0	16.3	16.2	16.1	16.4	15.2	14.3	13.7	13.7	13.8	—
6	15.8	15.5	16.2	15.5	16.2	16.0	16.3	15.3	14.0	13.8	13.0	13.0	—
7	16.1	16.3	16.2	16.1	16.0	16.3	17.2	16.0	14.5	14.0	15.0	14.3	—
8	16.1	16.2	16.3	16.7	16.0	16.0	16.3	16.1	15.3	15.2	15.2	15.2	—
9	16.0	16.1	16.1	16.1	16.2	16.4	16.7	15.4	14.3	13.8	14.0	14.0	—
10	15.6	15.8	15.6	15.9	16.1	16.0	16.8	16.3	16.0	15.5	15.2	15.3	—
11	16.1	16.2	16.1	16.1	16.0	16.1	16.9	16.3	15.4	15.0	15.1	15.1	—
12	15.6	15.9	15.9	16.0	15.9	16.3	17.2	16.4	15.8	15.4	15.0	14.5	—
13	15.8	16.0	16.0	16.1	16.1	16.2	16.4	16.6	15.9	15.3	15.2	14.8	—
14	15.3	15.3	15.5	16.1	15.8	15.9	16.6	16.0	15.2	15.1	15.0	15.2	—
15	15.8	16.0	16.0	16.1	15.9	16.0	16.6	16.1	15.3	15.1	14.8	15.2	—
16	15.4	15.5	15.5	15.5	15.4	15.5	15.9	15.3	14.7	14.8	15.1	15.3	—
17	15.5	15.5	15.6	15.8	15.9	16.2	17.4	16.6	15.4	14.7	13.8	14.0	—
18	15.5	15.5	15.5	15.5	15.6	15.9	16.8	16.0	15.0	14.0	14.3	14.8	—
19	15.6	15.6	15.8	15.9	15.9	15.9	16.3	15.4	14.3	14.3	14.6	15.2	—
20	16.0	16.1	16.3	16.2	16.2	16.0	16.4	15.5	14.7	14.6	14.5	15.3	—
21	15.9	16.2	16.1	16.1	16.3	16.4	16.7	16.0	15.2	14.7	14.7	14.4	—
22	15.9	15.8	15.9	16.0	16.0	16.1	16.6	16.2	15.4	15.4	14.7	15.4	—
23	16.2	16.4	16.3	16.1	16.3	16.4	16.6	15.8	15.0	14.3	13.9	13.9	—
24	15.8	16.1	16.0	16.2	16.2	16.3	16.4	16.2	15.2	15.0	14.3	14.4	—
25	16.0	15.8	15.8	15.6	15.8	16.0	16.6	16.0	15.3	15.0	14.5	14.7	—
26	15.2	15.3	15.4	15.4	15.4	15.4	16.1	15.9	15.2	15.0	14.2	14.3	—
27	15.4	15.4	15.0	16.4	15.3	16.1	16.7	16.3	15.2	14.4	13.9	13.8	—
28	15.2*	15.2*	15.4*	15.4*	15.5*	15.8*	16.2*	15.8	15.2	15.8	14.0	14.0	—
29	15.1	15.2	15.4	15.5	15.5	15.5	16.6	15.6	14.5	14.0	13.6	13.6	—
30	15.0	15.2	15.2	15.3	15.5	15.8	16.3	16.0	15.1	14.7	14.4	14.3	—
31	15.4	15.6	15.6	16.1	16.3	16.1	16.7	15.1	13.8	14.0	13.4	13.7	—
Hourly Means.	15.71	15.80	15.82	15.94	15.92	16.03	16.52	15.85	14.99	14.75	14.56	14.68	—

MAY.	Mean Batavia Time. 1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	15.9	16.4	17.2	16.9	16.7	16.1	16.1	16.1	15.9	15.9	15.8	15.9	15.97
2	16.4	16.4	16.6	16.4	16.3	16.1	16.0	15.9	15.9	15.8	15.9	15.9	16.05
3	15.3	15.8	16.1	16.2	16.0	15.6	15.4	15.4	15.4	15.3	15.4	15.5	15.63
4	17.2	16.4	16.2	16.0	16.1	15.9	16.1	15.5	15.6	15.5	15.6	15.9	15.83
5	14.7	15.8	16.3	16.4	16.3	16.3	15.4	15.2	15.2	15.2	14.6	15.0	15.44
6	13.5	15.2	16.6	17.2	16.9	16.4	16.0	16.0	16.0	16.1	16.1	16.0	15.53
7	14.4	14.7	15.2	16.1	16.3	16.4	16.0	16.0	15.9	15.6	15.8	15.9	15.68
8	15.6	16.0	16.9	17.2	16.7	16.1	16.0	16.0	16.0	16.0	16.0	15.9	16.04
9	14.4	15.1	16.2	16.7	16.7	16.0	15.6	15.3	15.4	15.4	15.5	15.9	15.55
10	15.4	15.5	16.2	16.3	16.1	16.1	16.0	15.9	15.8	15.6	15.8	15.6	15.85
11	15.6	15.5	16.1	16.3	16.4	16.2	15.9	15.3	15.4	15.3	15.2	15.5	15.80
12	14.5	14.6	15.4	16.0	16.3	15.8	15.5	15.3	15.2	15.2	15.6	15.6	15.62
13	14.8	15.0	15.6	16.3	16.2	15.9	15.3	15.3	15.5	15.2	15.3	15.3	15.67
14	15.9	16.0	16.0	15.9	16.0	15.9	15.6	15.3	15.3	15.3	15.4	15.5	15.63
15	15.5	15.8	16.1	16.3	16.2	15.6	15.6	15.5	15.3	15.2	15.2	15.3	15.69
16	15.4	15.4	15.9	15.8	15.9	15.9	15.8	15.6	15.5	15.3	15.5	15.6	15.48
17	14.7	16.0	16.7	16.9	16.6	15.9	15.5	15.4	15.4	15.3	15.5	15.5	15.66
18	15.9	16.6	17.1	16.6	16.3	15.9	15.9	15.4	15.4	15.2	15.4	15.4	15.65
19	15.8	16.6	17.4	17.7	17.0	16.3	16.0	15.5	15.5	15.3	15.6	15.5	15.79
20	16.1	16.1	16.3	16.2	16.1	15.9	15.9	15.6	15.6	15.8	15.9	15.9	15.80
21	15.2	16.1	16.7	16.9	16.3	15.8	15.9	15.8	15.6	15.8	15.8	15.8	15.85
22	16.3	16.3	16.4	15.9	16.3	16.1	15.9	14.7	15.3	15.5	15.8	16.1	15.83
23	14.5	15.0	15.8	15.9	15.8	15.9	15.8	15.6	15.8	15.6	15.9	15.9	15.61
24	14.3	15.0	15.5	15.3	15.3	15.2	15.1	14.4	15.1	15.2	15.4	16.0	15.41
25	14.0	15.3	16.2	16.3	15.6	15.2	15.1	15.1	15.1	15.2	15.0	15.2	15.43
26	14.7	15.2	15.8	15.6	16.4	17.2	16.9	16.3	15.2	15.2	14.8	15.3	15.48
27	14.0	15.4	15.5	15.3*	15.6*	15.3*	15.0*	15.0*	15.0*	15.0*	15.0*	15.0*	15.21
28	14.8	15.4	16.4	16.6	15.9	15.3	15.2	15.0	15.0	15.0	15.2	14.8	15.34
29	14.0	15.2	16.2	16.3	15.8	15.4	15.3	15.0	15.0	14.7	14.8	14.8	15.11
30	14.2	15.3	16.1	16.3	15.9	15.5	15.3	15.0	14.8	14.4	14.8	14.8	15.22
31	15.0	15.6	15.9	15.2	15.0	15.0	15.2	15.2	15.1	14.8	15.0	15.0	15.16
Hourly Means.	15.10	15.64	16.21	16.29	16.16	15.88	15.69	15.44	15.43	15.35	15.44	15.53	15.61

* From Wild's Magnetometer.

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

MAY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	285	288	288	285	287	284	288	288	299	300	307	307	—
2	288	289	286	291	293	295	299	308	315	321	316	311	–
3	288	292	292	292	292	294	304	311	321	326	328	322	—
4	298	299	303	305	312	314	323	319	334	334	332	313	—
5	278	277	284	284	288	298	307	317	327	335	336	332	—
6	263	271	274	274	272	275	283	292	304	314	318	311	—
7	292	292	289	288	293	298	305	304	324	337	335	320	—
8	283	284	285	296	296	297	302	308	312	315	320	315	—
9	288	289	289	289	291	298	305	317	320	326	328	322	—
10	293	293	293	291	294	298	301	306	312	322	322	316	—
11	274	282	281	281	282	286	290	300	312	321	322	318	—
12	289	289	291	291	293	295	303	309	317	321	320	311	—
13	301	303	299	302	298	306	304	298	311	325	320	311	–
14	274	275	275	282	281	286	291	298	307	316	315	310	—
15	275	277	277	279	282	284	292	295	303	312	317	317	—
16	283	284	285	284	287	292	294	300	310	322	323	318	—
17	287	288	289	292	296	297	300	312	327	331	334	326	-
18	289	290	291	291	293	301	311	324	333	345	347	340	—
19	299	302	302	300	301	303	305	308	317	327	337	330	—
20	277	286	282	280	285	293	293	299	302	308	315	308	–
21	293	296	296	299	298	303	313	318	327	332	336	328	—
22	281	284	285	288	292	298	306	317	333	319	327	299	–
23	266	266	273	273	273	283	293	298	309	308	308	301	—
24	281	280	285	287	285	290	297	298	303	307	314	310	–
25	273	275	277	280	279	283	289	291	299	308	310	307	—
28	282	284	284	286	290	294	298	308	320	325	318	309	–
27	252	264	262	280	279	274	282	283	274	271	279	284	—
28	274*	277*	276*	277*	283*	287*	297*	302	311	316	315	307	–
29	278	279	280	284	284	287	293	297	300	300	302	301	—
30	284	284	287	288	290	293	298	306	316	325	322	314	—
31	280	282	287	289	294	302	303	307	318	295	298	293	—
Hourly Means.	282.2	284.5	285.4	287.4	289.1	293.2	299.0	304.5	313.5	318.2	320.0	313.3	—

MAY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	307	302	292	284	281	284	284	284	284	281	285	285	290.0
2	303	298	295	293	288	287	287	287	288	288	288	288	295.9
3	311	307	301	293	293	294	294	293	290	289	293	294	300.6
4	298	285	287	285	284	286	255	272	271	273	274	275	297.1
5	308	302	290	282	282	270	265	271	277	269	287	268	293.1
6	293	293	285	283	280	282	284	284	288	289	291	289	287.2
7	312	297	284	276	272	272	279	276	275	276	278	284	294.1
8	312	306	293	283	279	280	281	282	284	283	286	286	294.5
9	312	308	302	295	290	287	291	290	288	288	287	289	299.5
10	311	308	303	302	289	284	279	274	280	270	275	279	295.6
11	305	298	292	284	274	273	278	279	280	283	286	287	290.3
12	299	294	293	293	290	294	293	296	297	293	287	292	297.9
13	306	293	284	276	275	276	275	280	265	268	270	270	292.3
14	297	284	282	274	274	278	281	282	284	276	270	282	286.4
15	307	294	285	274	271	275	274	277	276	276	279	281	286.6
16	312	303	293	285	284	283	285	285	284	282	282	284	293.5
17	327	322	309	295	287	287	287	289	289	288	288	288	301.5
18	328	314	308	303	299	297	296	295	294	294	295	298	307.3
19	318	298	280	265	260	260	266	265	271	277	279	279	293.7
20	298	293	285	281	279	280	278	284	291	289	291	298	290.4
21	324	315	310	305	296	285	277	274	277	279	280	280	301.7
22	282	271	279	259	250	237	238	255	257	255	260	261	280.5
23	293	287	281	280	281	283	283	284	282	280	279	278	285.1
24	298	289	281	271	276	275	270	270	273	274	270	270	285.6
25	303	298	287	278	279	280	282	280	279	279	276	278	286.3
26	316	332	324	321	249	229	214	222	255	265	265	251	285.0
27	279	260	263	267*	267*	271*	273*	273*	269*	269*	271*	271*	271.5
28	298	288	274	267	269	270	274	274	273	273	273	286	285.0
29	293	289	282	280	279	276	275	280	281	282	284	284	286.3
30	302	288	285	278	275	280	282	284	284	290	289	287	293.0
31	284	285	279	277	280	278	268	268	261	264	279	279	285.4
Hourly Means.	304.4	296.8	289.9	283.5	278.5	277.2	275.7	277.7	278.9	278.8	280.5	281.2	291.4

* From Wild's Magnetometer.

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

MAY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	431	429	430	431	430	430	429	433	424	415	413	418	—
2	430	429	430	428	428	425	424	414	414	410	411	412	—
3	416	414	413	413	414	411	406	416	412	405	403	410	—
4	420	419	418	417	415	414	415	417	410	406	406	411	—
5	424	425	420	420	419	412	411	419	412	409	415	420	—
6	432	426	425	427	424	421	419	428	423	420	421	420	—
7	427	427	428	428	426	421	414	425	426	416	420	438	—
8	432	430	431	428	426	425	420	418	416	410	401	406	—
9	429	429	429	429	429	423	419	420	411	403	407	408	—
10	430	430	430	430	430	434	424	419	416	408	411	416	—
11	434	431	431	432	433	429	426	429	429	426	423	423	—
12	430	430	430	431	432	428	424	425	421	420	421	430	—
13	423	424	426	427	430	427	425	440	435	423	420	427	—
14	441	440	439	436	440	437	435	442	438	434	433	433	—
15	445	442	442	442	442	439	435	438	433	430	430	430	—
16	441	440	439	440	440	437	434	429	423	416	418	421	—
17	437	437	435	433	433	430	429	434	432	425	421	416	—
18	439	438	436	436	435	429	428	434	435	430	427	422	—
18	441	438	438	438	438	436	439	450	447	437	421	417	—
20	443	439	440	442	439	433	435	440	441	436	430	427	—
21	439	438	438	437	437	433	427	426	424	426	426	430	—
22	445	443	442	441	440	435	428	419	413	421	421	432	—
23	440	442	440	441	442	435	432	440	435	437	437	438	—
24	441	442	440	440	442	438	433	432	432	432	430	433	—
25	438	438	438	438	438	436	433	440	435	427	434	440	—
26	438	438	438	437	437	434	432	441	438	432	434	444	—
27	449	442	443	435	438	440	436	443	445	452	443	435	—
28	432*	430*	429*	428*	429*	426*	423*	421	421	421	418	415	—
29	423	423	421	421	421	416	417	418	416	414	407	405	—
30	419	418	416	416	415	413	411	411	410	408	410	409	—
31	418	417	414	411	411	408	413	435	428	427	428	431	—
Hourly Means.	433.1	431.9	431.3	430.7	430.7	427.6	425.0	428.9	425.6	421.8	420.6	423.1	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	420	424	428	436	440	442	439	438	437	438	434	433	430.1
2	420	420	425	428	428	425	423	423	422	420	419	417	421.9
3	411	414	424	429	427	426	426	427	428	428	426	422	417.5
4	421	432	428	432	431	430	444	434	433	430	428	427	422.4
5	426	422	428	430	430	435	441	433	428	434	425	432	423.8
6	422	420	421	429	434	432	431	431	429	429	428	429	425.9
7	444	448	452	446	444	444	441	440	440	438	437	432	433.4
8	410	410	416	426	432	437	435	435	433	433	432	430	423.8
9	411	411	419	429	433	439	436	435	436	436	435	433	424.5
10	419	422	426	427	439	441	442	442	437	440	437	433	428.5
11	425	431	436	439	446	447	442	441	439	436	434	432	433.1
12	437	442	434	430	431	434	436	435	434	434	435	431	430.6
13	429	433	432	434	441	448	448	446	451	451	446	442	434.5
14	435	444	447	456	456	452	449	449	448	450	451	443	442.8
15	433	436	439	441	449	452	451	450	449	448	446	443	441.0
16	428	430	434	441	442	445	443	443	444	444	442	439	435.5
17	410	411	417	429	444	447	445	444	444	443	442	441	432.5
18	422	426	431	442	447	450	448	448	448	447	446	443	437.0
19	421	429	431	439	449	454	451	450	447	443	442	443	439.1
20	429	431	433	438	445	447	447	445	440	442	441	440	438.5
21	428	431	430	443	450	455	456	455	451	448	446	446	438.3
22	436	437	434	451	460	464	460	452	446	446	442	443	439.6
23	441	440	439	442	446	447	446	446	445	444	443	443	440.9
24	436	438	440	444	443	444	446	447	442	441	440	438	438.9
25	431	419	426	437	447	448	446	445	444	443	443	442	437.8
26	440	420	418	434	481	484	487	475	453	444	444	451	444.8
27	439	445	448	446*	448*	447*	445*	443*	442*	440*	437*	434*	442.3
28	420	420	423	433	437	438	434	433	433	432	430	422	427.0
29	407	407	411	421	430	430	430	426	426	425	422	420	419.0
30	411	411	411	416	421	423	422	421	421	417	417	417	415.2
31	424	419	426	433	436	439	439	442	442	442	430	430	426.8
Hourly Means.	425.4	426.3	429.3	435.5	441.5	443.4	442.9	441.1	439.1	438.3	436.1	434.5	431.8

* From Wild's Magnetometer.

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	15.6	15.8	15.7	15.8	15.8	15.9	16.4	15.2	14.3	14.2	14.1	14.1	—
	2	16.2	16.3	16.2	16.4	16.2	16.2	15.9	14.7	14.1	13.8	13.5	14.1	—
	3	15.5	15.6	15.6	15.6	15.7	15.7	16.0	15.5	14.6	14.4	14.3	14.3	—
	4	15.6	15.7	15.8	15.8	16.4	16.2	16.2	15.2	14.6	14.6	14.6	14.7	—
	5	15.5	15.5	15.7	15.5	15.6	15.7	16.7	16.3	15.6	14.9	14.4	14.7	—
	6	15.6	15.5	15.6	15.6	15.7	15.7	15.7	14.3	13.4	13.2	14.1	15.1	—
	7	15.5	15.5	15.6	15.5	15.7	15.7	16.6	15.8	14.9	14.3	14.0	13.4	—
	8	15.6	15.6	15.8	15.9	15.9	15.7	16.2	15.0	14.3	13.5	13.5	14.3	—
	9	15.6	15.6	15.7	15.6	15.8	15.7	16.6	15.7	15.2	14.6	14.7	14.6	—
	10	15.2	15.4	15.7	15.5	15.7	15.7	15.8	15.4	14.4	14.3	14.6	15.1	—
	11	15.2	15.4	15.5	15.6	15.7	15.8	15.8	15.0	14.1	14.3	14.2	14.7	—
	12	15.5	15.5	15.8	15.6	15.9	15.8	15.7	14.4	13.3	12.7	13.1	13.4	—
	13	15.4	15.5	15.5	15.6	15.7	15.7	15.9	14.6	13.5	13.2	14.2	14.7	—
	14	15.0	15.4	15.4	15.5	15.6	15.7	15.7	14.9	14.6	14.8	14.9	15.1	—
	15	15.4	15.8	16.2	16.2	16.2	15.9	16.4	15.5	14.4	13.9	14.1	14.8	—
	16	15.7	15.9	15.9	15.9	15.7	15.7	16.6	15.7	14.6	14.2	15.1	15.2	—
	17	15.5	15.5	15.6	15.8	15.8	15.7	16.4	16.2	15.5	15.2	14.7	15.2	—
	18	15.5	15.5	15.5	15.6	15.7	15.5	16.5	15.7	14.3	13.5	13.4	13.5	—
	19	15.1	15.4	15.2	15.4	15.6	15.5	15.8	15.5	14.4	14.4	14.6	15.1	—
	20	15.5	15.5	15.5	15.5	15.7	15.5	15.6	15.1	14.7	14.1	13.9	14.0	—
	21	15.1	15.4	15.6	15.7	15.8	15.8	16.5	15.9	15.0	14.3	14.1	14.6	—
	22	14.4	15.4	15.4	15.5	15.5	15.1	15.5	15.1	15.9	14.4	14.6	14.4	—
	23	15.0	15.2	15.5	15.5	15.6	15.6	16.4	15.5	14.4	14.2	14.0	14.1	—
	24	15.0	15.5	15.5	15.5	15.5	15.5	15.5	14.7	14.1	14.0	14.6	15.1	—
	25	14.7	14.7	15.2	15.1	15.1	15.2	15.7	14.7	14.1	14.1	14.1	14.3	—
	26	15.0	15.1	15.2	15.2	15.5	15.5	15.5	14.2	13.7	13.2	14.0	14.6	—
	27	14.7	15.0	15.1	15.2	15.4	15.1	15.5	15.0	14.4	14.3	14.7	14.8	—
	28	15.0	15.1	15.2	15.4	15.5	15.4	15.7	14.7	13.7	13.1	13.2	13.4	—
	29	14.3	15.4	15.1	15.8	15.6	15.6	17.0	16.3	15.1	14.6	14.4	14.4	—
	30	15.1	15.2	15.5	15.4	15.6	15.5	15.8	15.0	14.1	13.4	13.5	13.7	—
Hourly Means.		15.27	15.46	15.56	15.61	15.71	15.64	16.05	15.23	14.44	14.06	14.17	14.45	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	14.4	15.6	15.7	15.5	15.2	15.2	15.5	15.2	15.2	15.2	15.2	15.6	15.27
	2	14.7	15.1	16.2	16.5	15.7	15.0	15.2	14.9	15.1	14.9	15.4	15.5	15.33
	3	15.5	15.6	15.7	15.5	15.5	15.5	15.4	15.2	15.2	15.1	15.2	15.4	15.32
	4	15.5	15.6	15.9	15.6	15.6	15.2	15.1	15.2	15.1	15.1	15.5	15.5	15.43
	5	15.5	15.1	15.4	15.5	15.5	15.4	15.2	15.2	15.1	15.5	15.2	15.5	15.43
	6	16.3	16.2	16.4	15.8	15.5	15.1	15.0	15.1	15.2	15.1	15.5	15.4	15.25
	7	14.1	14.4	16.2	16.3	15.7	15.5	15.5	15.2	15.2	15.4	15.5	15.5	15.29
	8	14.7	15.4	15.9	16.5	15.9	15.2	15.1	15.1	15.1	15.1	15.4	15.5	15.26
	9	15.8	16.4	17.0	17.1	17.3	15.5	15.2	15.1	15.2	15.2	15.2	15.1	15.65
	10	15.7	15.7	15.9	16.4	15.9	15.6	15.7	15.1	15.0	14.7	15.1	15.5	15.38
	11	15.9	16.7	17.0	16.7	16.2	15.4	15.2	15.2	15.5	15.1	15.2	15.1	15.44
	12	14.7	15.7	16.3	16.0	15.7	15.0	15.2	14.9	14.8	14.6	14.8	15.2	14.98
	13	15.0	16.2	16.4	15.7	15.5	15.2	15.8	15.4	15.2	15.0	15.1	15.0	15.21
	14	15.8	17.0	17.1	17.5	17.3	16.2	16.5	16.5	15.2	15.1	14.6	14.7	15.67
	15	15.7	16.3	15.8	15.6	15.6	15.2	15.2	15.2	15.2	15.1	15.5	15.5	15.45
	16	15.2	15.0	15.7	15.7	15.5	14.7	15.1	15.2	15.1	15.1	15.1	15.2	15.37
	17	15.7	15.8	15.8	15.1	14.7	14.6	14.7	14.8	15.0	15.1	15.1	15.4	15.37
	18	14.6	15.2	15.6	15.4	14.7	14.6	14.6	14.7	14.8	14.8	14.8	14.8	14.95
	19	15.4	15.7	16.3	16.2	15.5	14.7	14.7	14.9	14.8	14.8	15.1	15.2	15.22
	20	14.8	15.5	15.2	15.4	15.2	14.8	14.8	14.3	14.6	14.3	14.4	14.7	14.94
	21	15.5	16.3	17.8	16.7	16.4	15.7	15.2	15.1	14.8	15.0	14.7	14.7	15.49
	22	15.4	15.6	16.5	15.7	15.4	15.2	14.7	15.1	14.7	14.6	14.6	14.3	15.13
	23	14.6	16.2	16.5	16.2	15.7	15.4	14.7	14.8	14.6	14.7	14.8	14.6	15.16
	24	15.8	16.2	16.3	16.2	15.7	15.2	14.9	14.7	14.7	14.6	14.7	14.6	15.17
	25	15.5	16.2	16.2	16.5	15.7	14.8	14.7	14.7	14.7	14.7	14.8	14.7	15.01
	26	15.5	15.8	15.8	15.7	15.2	14.6	14.7	14.8	14.9	14.8	14.7	14.6	14.91
	27	15.1	15.4	15.9	15.7	14.7	14.1	14.6	14.7	14.7	14.6	14.7	14.7	14.92
	28	14.3	15.0	15.7	15.6	15.0	14.4	14.4	14.6	14.7	14.6	14.7	14.7	14.71
	29	15.2	15.5	15.5	15.5	15.2	14.6	14.7	14.7	14.7	14.3	14.6	14.7	15.12
	30	15.0	15.2	15.6	15.1	15.0	14.4	14.7	14.6	14.7	14.7	14.7	14.7	14.84
Hourly Means.		15.23	15.72	16.11	15.96	15.59	15.07	15.07	15.01	14.96	14.90	15.00	15.05	15.22

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

JUNE. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	279	276	283	277	281	286	292	302	307	312	313	307	—
2	291	291	289	286	289	293	298	308	310	316	309	306	—
3	280	284	285	286	289	294	304	310	318	325	325	324	—
4	285	285	284	286	290	299	298	304	313	323	315	314	—
5	289	291	290	290	290	293	299	306	317	327	331	332	—
6	289	289	292	289	291	295	301	309	313	317	323	319	—
7	294	295	296	295	296	303	304	309	314	314	315	315	—
8	299	299	295	300	300	303	309	309	316	321	324	318	—
9	296	298	299	306	311	319	324	328	335	349	351	355	—
10	280	282	278	279	282	289	295	302	305	318	318	315	—
11	290	286	305	290	295	300	304	310	317	316	320	309	—
12	288	289	291	291	291	296	301	306	311	315	316	313	—
13	291	287	287	289	291	295	304	310	315	323	323	316	—
14	292	295	296	299	300	306	316	315	318	313	302	294	—
15	228	229	237	243	249	263	277	279	280	285	285	282	—
16	267	267	272	274	275	280	284	286	298	295	295	296	—
17	274	273	271	275	276	282	289	300	306	317	313	317	—
18	276	279	279	277	284	290	300	308	320	328	325	319	—
19	287	288	289	287	285	289	294	300	308	318	323	322	—
20	277	279	278	281	281	282	294	299	301	305	308	306	—
21	292	290	295	295	301	291	301	313	318	325	288	325	—
22	291	276	276	275	276	284	292	293	280	295	300	292	—
23	281	282	281	281	283	286	293	305	317	317	315	323	—
24	277	276	278	280	279	284	289	295	300	305	313	313	—
25	284	285	289	289	287	290	295	302	305	305	308	308	—
26	285	286	285	286	286	287	294	297	303	310	308	307	—
27	287	289	289	289	290	292	299	302	308	316	317	313	—
28	290	294	294	295	299	304	311	323	333	341	343	343	—
29	291	279	283	274	281	284	286	297	299	296	303	304	—
30	285	286	286	287	287	288	294	305	315	322	326	323	—
Hourly Means.	283.8	283.5	285.1	285.0	287.2	291.6	298.0	304.4	310.0	315.6	315.2	314.3	—

JUNE. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	301	285	281	267	271	270	265	265	280	276	279	283	284.9
2	301	295	292	285	285	286	279	279	277	288	277	276	291.9
3	309	302	296	294	287	284	283	285	281	281	284	285	295.6
4	313	307	301	295	291	290	285	284	284	283	284	287	295.8
5	323	315	305	296	289	286	286	285	287	287	287	289	299.6
6	306	295	293	287	285	285	285	286	283	287	284	290	295.5
7	304	295	289	289	290	292	294	295	295	295	296	297	299.2
8	309	304	300	297	294	294	294	294	295	293	290	294	302.1
9	323	305	289	260	246	266	281	271	268	271	271	275	299.9
10	307	298	289	282	277	276	282	280	282	284	285	288	290.5
11	302	289	284	284	282	284	286	284	283	286	287	287	295.0
12	303	295	290	280	281	285	286	286	285	284	285	283	293.8
13	313	301	295	293	292	295	286	281	287	290	289	294	297.8
14	271	244	219	208	194	192	180	163	167	168	204	212	252.8
15	272	269	263	257	258	262	263	263	260	260	261	270	262.3
16	294	287	275	270	271	275	272	266	270	270	268	269	278.2
17	309	300	286	280	279	282	276	276	277	281	277	277	287.2
18	309	300	295	287	289	290	289	287	285	284	285	289	294.8
19	315	305	291	284	283	286	285	280	279	279	276	280	293.0
20	304	299	290	285	281	279	279	285	281	281	285	290	288.8
21	313	317	301	275	266	271	271	272	273	260	258	264	290.6
22	289	281	273	276	276	271	275	267	270	271	276	276	280.5
23	306	288	274	267	273	271	272	271	273	275	276	276	286.9
24	303	295	284	278	278	280	282	281	283	282	284	282	287.5
25	289	279	280	279	279	281	281	278	277	279	281	284	288.1
26	300	294	282	282	283	282	286	282	283	282	283	286	290.0
27	310	306	299	293	291	294	292	291	290	289	289	291	296.9
28	323	311	303	292	295	300	295	295	291	290	290	276	305.5
29	298	285	278	276	280	284	280	275	277	280	280	284	285.6
30	318	302	289	284	281	284	283	282	280	283	282	285	294.0
Hourly Means.	304.6	294.9	286.2	279.4	277.6	279.2	278.4	276.3	276.8	277.3	278.4	280.6	290.1

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE.	1	434	434	431	434	434	430	429	420	418	415	423	430	—
	2	419	419	421	422	421	420	420	409	407	408	411	411	—
	3	416	414	412	411	411	408	405	418	414	410	411	411	—
	4	421	421	421	420	419	415	414	416	406	397	403	408	—
	5	425	423	424	424	425	420	415	417	414	412	411	411	—
	6	428	427	426	426	426	422	421	434	430	417	405	398	—
	7	429	426	426	428	428	423	425	421	420	416	415	419	—
	8	421	421	423	421	422	419	417	432	430	429	431	431	—
	9	437	437	436	432	430	426	421	428	428	421	421	411	—
	10	444	444	447	447	446	443	443	394	394	384	382	380	—
	11	397	399	389	397	397	393	390	426	423	421	417	417	—
	12	433	432	430	431	432	428	426	406	402	396	389	392	—
	13	407	406	406	406	406	402	401	413	411	407	403	398	—
	14	418	416	416	415	416	411	410	413	408	411	414	414	—
	15	418	419	418	416	417	411	407	418	421	412	413	416	—
	16	427	426	423	425	425	421	421	422	418	413	409	410	—
	17	421	420	419	416	417	411	406	403	402	397	403	403	—
	18	419	417	416	417	416	410	403	397	394	393	393	397	—
	19	415	414	414	414	416	412	411	416	411	403	393	393	—
	20	420	420	420	419	417	416	415	426	425	421	416	410	—
	21	421	423	420	420	417	421	416	410	408	402	387	390	—
	22	417	424	425	425	424	420	416	416	421	413	416	420	—
	23	424	424	425	425	425	421	420	417	414	413	412	402	—
	24	419	419	418	417	419	416	416	411	404	394	391	394	—
	25	421	420	417	416	421	419	416	423	421	420	420	412	—
	26	426	425	425	426	427	426	423	421	411	406	405	411	—
	27	414	412	412	414	415	412	411	411	403	393	394	394	—
	28	413	411	411	410	409	405	402	399	398	393	382	380	—
	29	410	416	412	417	414	409	410	410	414	418	424	436	—
	30	424	422	421	420	420	421	419	418	416	411	402	394	—
Hourly Means.		421.3	421.0	420.1	420.4	420.4	417.0	415.0	415.5	412.9	408.2	406.5	406.4	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
JUNE.	1	424	426	431	435	435	435	435	437	427	430	427	424	429.1
	2	405	399	400	406	417	421	422	422	422	417	421	419	415.0
	3	417	420	418	424	428	430	429	426	426	426	424	423	418.0
	4	407	414	420	423	431	432	433	432	430	430	429	426	419.5
	5	416	419	423	427	434	435	435	434	431	429	430	429	423.5
	6	405	412	420	431	436	439	438	435	436	434	434	431	425.5
	7	420	425	421	429	434	433	429	428	426	425	424	421	424.6
	8	430	430	425	428	439	445	444	442	441	441	442	438	430.9
	9	431	437	442	464	478	463	453	455	454	452	450	447	439.8
	10	387	389	394	403	411	412	408	406	405	401	398	397	410.8
	11	420	421	428	434	444	444	442	442	441	438	435	434	420.4
	12	393	398	401	407	418	418	416	416	416	415	413	410	413.3
	13	402	399	412	424	425	425	429	431	428	425	423	420	412.9
	14	417	424	436	443	456	458	464	465	464	458	437	434	429.9
	15	423	427	427	434	436	435	433	432	434	434	431	428	423.3
	16	413	411	416	422	429	425	425	428	428	426	426	425	421.4
	17	406	408	416	423	426	423	425	423	421	420	421	420	414.6
	18	405	406	416	426	426	420	419	417	417	418	417	415	411.4
	19	398	397	403	419	425	425	422	422	423	421	423	420	412.9
	20	410	412	422	428	435	436	435	430	430	429	426	422	422.5
	21	399	398	406	428	444	442	438	434	431	435	434	430	418.9
	22	417	419	423	429	434	437	433	435	432	429	426	427	424.1
	23	399	405	416	425	428	431	429	426	425	423	421	420	419.6
	24	407	420	426	428	431	430	426	426	425	424	423	423	417.0
	25	412	414	420	426	433	435	434	434	434	429	429	426	423.0
	26	412	420	425	426	426	428	424	424	422	421	420	416	420.7
	27	395	397	404	417	423	422	421	420	420	419	417	414	410.6
	28	387	387	391	403	411	413	417	416	417	416	415	419	404.4
	29	435	430	436	440	441	446	443	444	439	435	432	427	426.6
	30	395	403	415	422	419	417	418	417	418	417	415	412	414.8
Hourly Means.		409.6	412.2	417.8	425.8	431.8	431.8	430.6	430.0	428.8	427.2	425.4	423.2	420.0

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30′.0 + THE NUMBERS IN THE TABLE.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	15.5	15.9	15.9	16.0	16.1	16.1	16.3	15.3	15.0	14.6	14.5	14.7	—
2	15.9	16.8	16.2	16.1	16.1	16.3	16.3	16.0	15.3	15.7	15.2	15.2	—
3	15.8	15.8	15.9	16.1	16.2	15.9	16.1	15.4	15.0	14.6	14.5	15.0	—
4	15.9	15.8	15.9	16.1	15.8	16.0	16.9	16.2	15.2	14.2	14.2	15.1	—
5	15.3	15.3	15.4	15.3	15.7	15.9	15.9	15.3	14.2	14.1	14.3	15.1	—
6	15.7	15.4	15.7	15.3	15.5	16.5	17.0	16.2	15.8	15.5	16.8	16.5	—
7	15.3	15.8	15.8	15.9	15.8	15.9	15.9	15.3	15.8	15.5	15.0	15.3	—
8	15.5	15.8	15.9	15.8	15.9	15.9	16.3	15.0	13.8	13.8	14.1	14.1	—
9	15.2	15.2	15.3	15.4	15.5	15.5	15.9	14.8	14.6	14.8	15.1	15.3	—
10	14.3	14.5	14.7	14.7	15.0	15.0	15.9	15.0	13.8	13.4	13.0	13.2	—
11	14.9	15.0	15.1	15.0	15.1	15.3	15.3	14.6	14.1	14.2	14.5	15.0	—
12	15.2	15.3	15.0	15.1	15.3	15.5	16.0	14.2	13.0	12.9	13.0	13.9	—
13	15.1	15.0	15.1	15.2	15.3	15.4	16.1	15.2	14.4	13.9	13.6	14.2	—
14	15.3	15.3	15.3	15.3	15.3	15.3	15.5	14.2	13.6	13.8	15.0	15.0	—
15	15.2	15.3	15.2	15.2	15.3	15.7	16.6	16.2	15.0	13.8	13.2	13.3	—
16	15.2	15.2	15.3	15.3	15.3	15.3	15.4	14.4	13.7	13.2	13.0	13.8	—
17	15.2	15.2	15.3	15.2	15.2	15.2	16.1	15.3	14.3	13.8	14.3	14.2	—
18	15.0	15.1	15.7	15.2	15.7	15.3	15.9	14.9	14.1	13.6	13.6	14.2	—
19	14.7	15.0	15.0	15.0	15.1	15.3	15.3	15.0	14.2	14.2	14.9	15.1	—
20	14.7	15.0	15.2	15.2	15.2	15.3	16.1	15.4	14.7	14.1	13.8	13.9	—
21	14.7	14.9	15.2	15.2	15.3	15.3	16.2	15.9	15.7	15.3	15.0	14.7	—
22	15.1	15.1	15.0	15.0	15.1	15.3	15.8	15.0	14.1	13.8	14.7	15.0	—
23	14.7	15.0	15.0	15.1	15.1	15.0	15.3	15.1	13.8	13.8	13.8	14.2	—
24	14.9	15.1	15.0	15.2	15.2	15.1	15.8	15.3	15.1	14.2	14.1	14.2	—
25	14.9	15.0	15.1	15.2	15.2	15.2	15.3	13.8	12.7	12.7	12.7	13.3	—
26	14.9	15.1	15.1	15.3	15.3	15.9	16.8	16.2	14.2	13.4	12.7	13.0	—
27	15.0	15.1	15.1	15.1	15.3	15.8	15.4	15.0	13.9	13.4	12.7	13.3	—
28	15.0	15.0	15.2	15.2	15.2	15.3	16.5	15.5	14.6	13.8	13.8	13.8	—
29	14.9	15.1	15.0	15.2	15.2	15.0	15.2	15.0	14.1	13.8	13.5	14.2	—
30	14.7	15.0	15.0	15.0	15.3	16.1	16.0	14.7	13.4	12.8	11.9	12.5	—
31	14.6	14.9	14.9	15.0	15.2	15.3	15.8	15.2	14.4	13.0	12.8	13.3	—
Hourly Means.	15.11	15.26	15.31	15.32	15.41	15.55	15.96	15.18	14.37	13.99	13.98	14.31	—

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	15.0	15.8	15.8	16.0	15.0	15.1	15.1	15.2	15.3	15.3	15.4	16.0	15.45
2	15.2	15.7	17.6	16.7	16.5	15.4	15.2	15.0	15.0	15.2	15.2	15.3	15.80
3	15.3	16.1	17.3	16.6	15.9	15.5	15.7	15.2	15.3	15.3	15.3	15.2	15.63
4	15.4	16.2	16.8	16.5	16.2	15.3	15.2	15.2	15.3	15.0	15.1	15.0	15.60
5	16.3	17.3	17.0	16.0	15.9	15.3	15.3	15.3	15.3	15.2	15.2	15.3	15.47
6	16.9	16.3	16.3	15.8	15.5	15.9	15.3	15.3	15.3	15.2	15.0	15.3	15.83
7	15.8	16.0	16.3	16.1	16.0	15.8	15.4	15.3	15.2	15.3	15.3	15.2	15.63
8	14.2	15.4	16.2	15.9	15.3	15.2	15.0	15.0	15.0	14.9	14.9	15.1	15.17
9	15.5	15.2	14.8	14.8	14.5	14.1	14.2	13.9	14.0	14.0	14.1	14.1	14.83
10	13.7	14.6	15.2	15.9	15.3	14.6	14.5	14.2	14.2	14.2	14.2	14.6	14.49
11	15.3	16.2	16.5	15.4	15.0	14.2	14.4	14.6	14.3	14.2	14.6	15.2	14.92
12	14.2	15.1	15.7	15.4	15.2	14.7	14.7	14.6	14.7	14.7	15.0	14.7	14.71
13	15.1	15.4	15.4	15.3	15.2	15.0	15.0	14.7	14.7	14.6	15.1	15.1	14.96
14	15.9	16.0	15.8	15.1	15.2	15.0	14.7	14.6	14.9	15.0	15.0	15.0	15.05
15	13.8	15.0	15.2	15.0	15.0	14.9	15.0	15.0	15.0	14.7	15.0	15.0	14.94
16	15.1	16.1	16.9	16.1	15.2	14.9	14.7	14.7	14.7	14.9	15.0	15.0	14.93
17	15.2	15.5	18.4	17.3	15.2	16.1	15.2	15.5	14.5	14.7	14.7	15.0	15.28
18	15.2	15.8	16.3	16.0	15.3	15.2	14.9	14.3	15.1	14.7	14.6	14.2	15.00
19	15.3	15.9	16.9	16.1	15.5	15.2	15.1	15.2	15.0	14.7	14.6	14.2	15.10
20	14.2	15.0	15.8	15.7	15.4	15.0	15.0	14.2	14.7	14.6	14.5	14.7	14.89
21	14.5	15.1	15.3	15.1	15.1	15.0	14.7	14.6	14.7	14.7	14.7	14.7	15.07
22	15.0	15.1	15.2	15.2	15.1	15.0	14.7	14.6	14.6	14.6	14.4	14.7	14.88
23	15.8	15.9	16.0	15.9	15.8	15.2	15.0	15.0	15.0	14.9	14.6	14.6	14.98
24	14.7	14.6	15.2	15.8	15.3	14.9	14.6	14.3	14.9	14.9	14.7	14.7	14.91
25	14.2	15.0	15.1	15.3	15.3	14.9	14.6	14.7	14.7	14.3	14.2	14.9	14.51
26	14.2	15.0	15.3	15.2	15.1	14.7	15.0	14.7	14.7	14.6	14.5	14.7	14.82
27	14.1	14.6	15.3	16.1	15.9	15.2	15.1	15.0	15.1	15.0	15.0	14.7	14.84
28	13.7	14.2	15.1	15.1	15.1	14.7	14.6	14.6	14.7	14.6	14.1	14.6	14.75
29	14.7	15.2	16.2	16.5	16.1	14.7	14.6	14.6	14.7	14.7	14.2	14.6	14.88
30	13.6	14.1	15.2	15.8	15.8	15.0	14.7	14.3	14.3	14.1	14.2	14.5	14.50
31	14.6	15.8	16.1	16.5	15.9	15.1	14.5	14.5	14.4	14.2	14.6	14.2	14.78
Hourly Means.	14.89	15.46	16.01	15.81	15.45	15.06	14.89	14.77	14.82	14.74	14.74	14.84	15.05

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	288	289	290	293	292	296	306	315	322	342	337	335	—
2	266	293	288	283	283	289	297	311	321	321	326	322	—
3	280	282	284	287	288	292	300	308	313	325	325	321	—
4	285	287	288	288	290	297	298	302	305	313	318	319	—
5	286	288	288	289	292	293	299	309	321	330	335	340	—
6	282	289	279	297	299	302	312	327	331	344	340	324	—
7	278	283	283	284	291	296	310	321	318	323	326	313	—
8	289	289	290	294	294	299	304	308	315	329	327	325	—
9	292	293	297	296	298	300	306	317	320	323	327	322	—
10	298	297	299	300	299	302	305	312	321	331	331	327	—
11	292	294	297	296	298	302	304	308	313	321	327	327	—
12	278	278	287	296	295	297	303	311	321	332	338	334	—
13	287	290	293	293	293	294	303	309	315	323	323	323	—
14	290	292	291	290	295	298	309	321	331	333	335	330	—
15	290	288	302	299	299	299	303	316	325	332	331	317	-
16	288	287	288	287	292	294	302	312	321	329	330	332	—
17	288	289	288	290	291	294	303	313	326	335	345	347	—
18	236	241	245	249	249	251	260	265	275	288	297	298	—
19	260	262	264	264	262	266	269	279	287	284	297	293	—
20	262	264	265	267	270	269	280	290	299	309	309	308	—
21	275	274	271	273	271	274	278	284	288	298	304	298	—
22	264	265	266	265	268	270	277	280	288	294	303	303	—
23	269	271	271	274	275	278	282	285	288	297	298	299	—
24	279	284	284	282	284	293	311	311	316	317	317	320	—
25	274	273	275	276	279	281	285	292	294	306	314	317	—
26	268	273	274	273	275	278	276	279	284	294	297	302	—
27	269	274	273	274	274	281	283	291	298	302	297	292	—
28	269	273	271	275	279	283	289	300	306	312	312	308	--
29	283	283	284	288	290	297	302	308	315	307	310	302	—
30	269	270	274	274	275	278	290	302	312	312	312	307	—
31	274	274	275	276	277	284	288	289	302	307	325	308	—
Hourly Means.	277.7	280.3	281.4	283.0	284.4	288.0	294.6	302.4	309.4	316.5	319.8	316.5	—

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	336	334	295	275	284	278	283	283	281	281	278	270	299.3
2	304	294	292	294	288	283	289	285	284	281	282	288	294.3
3	300	309	303	291	284	284	276	285	283	287	283	287	294.9
4	313	307	293	283	283	285	286	284	287	287	284	289	294.6
5	323	302	295	292	288	292	286	284	289	292	291	289	299.7
6	321	316	307	303	294	275	281	280	275	275	278	273	300.2
7	299	279	276	279	278	275	276	278	277	285	288	289	291.9
8	316	297	290	291	293	297	290	284	288	288	288	293	299.1
9	316	308	300	295	290	288	293	294	294	296	296	297	302.4
10	322	314	306	299	298	298	297	295	293	292	290	292	304.9
11	322	310	300	297	297	299	302	299	299	299	300	291	303.9
12	313	299	292	283	283	287	284	283	278	278	281	288	296.9
13	311	303	297	292	289	291	296	294	289	288	287	291	298.6
14	317	307	295	292	286	286	287	292	288	289	292	293	301.3
15	306	297	291	291	288	289	286	285	284	291	289	286	299.6
16	322	310	297	288	283	284	284	284	284	284	288	290	298.3
17	394	360	270	232	245	202	208	199	203	237	229	232	280.0
18	285	268	261	247	254	245	246	251	253	256	247	259	259.4
19	279	270	256	252	250	256	254	255	249	251	257	262	265.8
20	294	288	274	265	262	264	264	270	265	265	266	275	276.8
21	293	284	274	266	262	265	264	263	262	261	265	263	275.4
22	294	283	276	271	269	269	266	265	265	268	268	268	275.2
23	292	284	271	270	269	273	274	274	274	273	273	275	278.7
24	314	308	288	292	282	280	278	278	268	268	270	273	291.5
25	306	298	281	278	276	278	275	274	269	269	268	259	283.2
26	303	288	284	270	264	266	266	268	268	268	265	268	277.1
27	284	279	272	265	265	268	266	269	270	271	270	270	277.4
28	301	292	279	275	270	272	274	273	274	274	279	283	284.3
29	306	298	281	266	262	268	269	264	255	257	265	267	284.5
30	300	292	267	264	262	270	261	261	267	267	267	269	280.1
31	288	275	265	260	257	261	264	260	261	266	262	265	277.6
Hourly Means.	308.8	298.5	284.8	278.0	276.0	275.1	275.0	274.6	273.4	275.6	275.7	277.2	288.6

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

JULY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	476	474	474	473	474	472	465	472	468	453	469	476	—
2	502	484	483	490	491	483	476	476	474	467	457	459	—
3	447	444	438	433	432	427	424	422	420	406	408	401	—
4	438	437	436	446	435	429	426	414	410	393	374	373	—
5	430	429	428	427	423	421	417	421	417	391	376	369	—
6	440	435	438	426	425	421	414	382	388	379	368	383	—
7	422	419	419	418	415	409	397	397	397	391	393	400	—
8	423	423	423	420	422	417	415	419	410	399	406	412	—
9	423	423	421	423	423	421	418	409	375	369	369	376	—
10	405	405	405	406	406	403	398	407	410	405	399	389	—
11	414	410	410	413	413	409	407	422	406	397	397	409	—
12	446	446	441	432	436	435	432	433	432	429	424	415	—
13	446	442	442	444	442	440	437	423	412	391	378	391	—
14	432	429	428	431	432	428	423	432	415	401	399	412	—
15	441	439	429	431	432	430	428	439	449	452	451	451	—
16	451	451	450	447	446	443	437	446	433	426	425	418	—
17	465	465	465	464	464	459	451	441	437	423	410	420	—
18	480	475	474	471	473	470	465	460	447	441	433	425	—
19	478	477	477	477	478	474	473	460	462	455	445	451	—
20	473	473	470	469	468	465	458	449	454	450	455	451	—
21	455	455	456	458	458	451	447	443	446	441	437	438	—
22	460	459	460	460	459	456	450	446	434	428	421	433	—
23	465	464	463	462	462	460	455	451	449	440	431	417	—
24	459	455	456	458	458	452	442	443	442	442	434	437	—
25	460	460	458	458	458	456	457	462	458	446	440	428	—
26	464	460	458	460	462	460	460	462	467	464	460	442	—
27	464	460	460	460	462	457	455	450	450	450	446	432	—
28	462	460	460	458	456	455	451	454	455	448	441	441	—
29	464	460	460	455	456	451	448	446	439	437	436	437	—
30	463	460	459	459	459	456	452	447	448	451	446	437	—
31	458	456	455	455	455	448	448	457	454	451	437	418	—
Hourly Means.	451.8	449.3	448.3	447.9	447.6	443.8	439.5	438.2	434.1	426.3	421.5	420.7	—

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	475	464	495	510	503	507	501	500	499	498	499	500	483.2
2	465	459	435	444	455	469	460	460	459	456	451	446	466.7
3	421	406	414	432	447	446	447	446	446	441	442	440	430.4
4	383	393	406	429	435	438	437	437	433	433	433	431	420.8
5	381	398	417	423	433	435	439	439	437	433	434	433	418.8
6	385	397	409	417	424	437	435	432	432	432	428	426	414.7
7	416	428	431	430	434	440	438	437	435	428	424	421	418.3
8	411	407	414	427	432	433	435	436	432	430	427	424	420.7
9	391	400	405	415	423	425	417	414	410	408	406	406	407.1
10	386	388	397	406	419	423	423	424	424	421	420	417	407.8
11	431	437	437	446	446	446	442	443	443	441	437	441	424.9
12	427	431	437	442	447	451	449	450	453	451	450	446	439.0
13	408	415	423	437	439	443	444	445	445	442	439	432	429.2
14	431	438	452	457	454	456	455	451	451	449	446	445	435.3
15	451	450	453	453	455	455	456	458	458	455	454	455	446.9
16	411	413	432	455	472	473	472	472	470	469	468	472	448.0
17	396	423	497	541	514	529	523	510	515	486	484	482	469.3
18	437	447	460	480	480	489	489	491	485	483	487	480	467.6
19	465	469	477	482	487	489	488	483	487	483	477	474	473.7
20	455	462	464	469	468	470	473	464	462	464	461	455	462.6
21	429	437	446	456	464	468	468	467	466	465	463	460	453.1
22	451	460	468	470	476	474	475	474	473	470	468	467	458.0
23	423	437	449	460	465	468	468	467	466	467	465	462	454.8
24	443	453	455	455	466	469	469	470	472	470	467	463	455.4
25	429	433	441	451	462	465	468	469	473	472	469	469	455.9
26	429	438	451	467	477	477	476	474	474	472	470	467	462.1
27	431	432	442	455	466	470	471	470	468	467	467	464	456.2
28	447	451	460	468	474	477	477	476	476	474	469	464	460.6
29	437	440	448	459	468	473	470	474	476	474	468	464	455.8
30	441	437	451	458	465	465	470	472	468	466	465	463	456.6
31	431	440	454	461	476	479	478	480	480	477	477	474	458.3
Hourly Means.	426.4	431.7	442.6	453.4	458.9	462.5	461.7	460.8	460.3	457.3	455.3	453.0	445.5

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30'.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	15.1	15.2	15.0	15.2	15.2	15.2	15.5	15.1	14.4	13.4	13.1	13.2	—
	2	14.5	14.8	15.0	15.3	15.2	15.5	16.3	15.2	14.0	13.6	13.1	13.2	—
	3	15.0	15.1	15.2	15.2	15.2	15.2	15.5	15.2	14.7	14.3	14.4	14.4	—
	4	15.1	15.0	15.0	15.0	15.0	15.3	16.4	16.2	15.2	14.7	14.3	13.8	—
	5	15.0	15.2	15.2	15.2	15.3	15.4	16.6	15.4	14.6	14.0	13.9	14.2	—
	6	14.5	14.7	15.0	15.0	15.2	15.3	15.9	14.5	13.2	13.0	13.2	14.4	—
	7	15.0	15.1	15.2	15.2	15.3	15.5	16.3	15.3	14.3	13.8	13.7	14.5	—
	8	15.2	15.2	15.3	15.1	15.3	15.6	16.1	15.0	14.2	13.9	14.0	14.4	—
	9	15.4	15.3	15.4	15.4	15.5	15.6	16.0	13.8	13.1	13.4	13.1	13.7	—
	10	14.8	15.0	15.2	15.2	15.3	15.3	15.1	13.9	12.9	12.3	12.9	13.4	—
	11	14.7	15.0	15.1	15.2	15.2	15.4	15.8	14.5	13.0	12.7	11.9	11.8	—
	12	14.8	15.1	15.1	15.0	15.3	15.5	16.4	15.4	14.0	14.6	13.0	12.9	—
	13	14.7	15.0	15.0	15.0	15.1	15.2	15.5	15.3	14.0	13.8	13.1	13.2	—
	14	14.3	14.5	15.3	14.2	14.8	15.6	16.2	15.3	14.5	14.4	14.3	14.4	—
	15	14.5	14.5	14.7	14.5	14.7	15.1	16.1	15.0	13.9	13.1	13.1	12.9	—
	16	13.9	14.2	13.8	14.3	14.4	14.7	15.0	14.7	14.3	13.8	13.8	13.8	—
	17	14.3	14.7	14.8	14.4	14.8	15.1	15.9	15.1	14.2	13.8	13.7	13.7	—
	18	14.4	14.4	14.5	14.3	14.8	15.1	15.5	14.8	13.8	13.1	13.8	14.6	—
	19	14.2	14.3	14.4	14.5	14.8	15.2	15.9	14.4	12.9	11.7	11.5	12.6	—
	20	14.4	14.4	14.7	14.8	15.1	15.4	15.5	14.8	14.0	13.2	13.0	13.2	—
	21	14.2	14.8	14.8	15.0	15.4	15.4	15.8	14.7	14.7	14.3	14.5	14.6	—
	22	14.3	14.5	14.7	14.8	15.2	15.3	15.4	14.7	13.8	13.0	13.1	14.2	—
	23	14.7	15.2	15.1	15.1	15.2	15.4	15.8	14.4	13.7	12.9	13.0	13.2	—
	24	14.5	14.4	14.8	14.8	15.0	15.3	15.4	14.3	13.0	11.8	11.8	12.7	—
	25	14.4	14.7	15.0	15.0	15.5	15.6	16.4	15.2	14.3	13.2	13.0	12.8	—
	26	14.4	14.4	14.4	14.4	14.6	15.3	16.2	15.0	13.9	13.0	13.2	13.8	—
	27	14.0	14.2	14.3	14.0	14.7	15.5	16.1	14.4	13.8	13.4	13.2	13.2	—
	28	13.8	14.3	14.3	14.4	15.6	15.5	16.7	15.3	14.3	13.6	13.2	14.0	—
	29	14.3	14.3	14.5	15.0	15.2	15.5	17.1	15.5	14.7	14.4	13.6	13.8	—
	30	14.3	14.4	14.4	14.4	14.5	15.4	15.6	15.0	13.6	12.9	12.9	12.1	—
	31	14.2	14.2	14.7	14.7	15.0	15.3	15.5	14.8	13.8	13.2	13.1	13.1	—
Hourly Means.		14.55	14.71	14.84	14.83	15.08	15.35	15.92	14.91	13.96	13.43	13.27	13.54	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	13.9	14.8	15.4	15.3	15.3	14.7	14.7	14.7	14.7	14.5	14.7	14.8	14.71
	2	13.6	14.4	15.3	15.5	15.5	15.2	15.2	14.8	14.5	14.7	14.7	15.0	14.75
	3	15.0	15.3	15.8	15.5	15.4	15.3	15.0	15.0	15.0	15.0	14.8	14.8	15.05
	4	14.2	15.3	16.3	15.6	15.3	15.2	15.2	15.1	15.1	15.0	15.0	15.0	15.14
	5	15.2	16.3	16.6	16.4	15.8	15.2	14.7	14.7	14.5	14.8	14.7	14.5	15.14
	6	15.5	16.6	16.7	16.2	15.6	15.2	15.0	14.8	14.7	14.8	15.0	14.8	14.95
	7	15.4	16.0	16.3	15.9	15.3	14.8	14.8	14.4	14.4	14.3	14.4	14.8	15.00
	8	15.5	15.0	15.2	15.0	15.4	15.2	14.8	14.4	14.6	14.7	14.8	14.7	14.94
	9	14.0	15.2	15.6	15.4	15.2	14.4	14.4	14.4	14.5	14.8	14.8	14.5	14.70
	10	14.0	15.1	15.6	15.6	15.6	15.1	14.6	14.5	14.5	14.5	14.7	14.6	14.57
	11	13.1	14.5	15.6	15.6	15.9	15.2	15.2	14.8	14.7	14.3	14.5	14.7	14.52
	12	13.8	14.7	15.4	15.4	15.5	15.2	15.2	15.0	15.0	14.7	14.8	14.5	14.85
	13	15.5	15.3	15.2	16.1	15.9	15.2	15.1	14.8	14.8	15.0	14.5	14.5	14.87
	14	14.7	15.4	15.5	15.6	15.9	15.3	15.2	14.8	14.7	14.5	14.5	14.4	14.93
	15	14.0	14.8	15.3	15.6	15.4	15.1	14.7	14.8	14.3	14.3	14.2	14.0	14.53
	16	13.8	14.7	15.6	15.5	15.3	15.0	14.8	14.4	14.4	14.2	14.3	14.4	14.46
	17	15.0	15.3	15.5	15.3	15.3	15.1	14.5	14.3	14.0	14.2	14.4	14.3	14.65
	18	15.5	16.4	17.0	17.0	16.1	15.0	14.7	14.4	14.5	14.3	14.3	14.2	14.85
	19	14.7	15.9	16.4	16.0	15.8	15.2	14.8	14.7	14.7	14.4	14.4	14.4	14.49
	20	13.8	15.2	17.0	16.7	16.6	16.0	16.4	15.6	16.0	14.5	14.2	13.4	14.90
	21	15.3	15.1	15.4	15.3	15.3	15.2	15.4	15.0	14.7	14.5	14.4	14.6	14.93
	22	14.5	14.8	15.3	15.4	15.4	15.4	15.3	15.2	15.0	14.5	14.4	14.7	14.70
	23	13.9	13.9	14.8	15.2	15.3	14.8	14.7	14.7	14.3	14.4	14.4	14.3	14.52
	24	13.8	15.1	16.1	15.5	15.3	15.0	14.8	14.7	14.6	14.3	14.3	14.3	14.40
	25	13.2	14.0	14.8	15.2	14.8	14.4	15.2	14.4	14.7	14.3	14.4	14.3	14.53
	26	14.4	15.3	16.6	16.0	16.0	15.4	15.5	15.0	15.0	14.2	13.2	13.9	14.71
	27	13.8	14.2	15.4	15.4	16.1	15.2	14.7	14.3	14.0	14.2	14.0	13.8	14.41
	28	13.4	14.0	15.2	15.4	15.4	14.8	14.3	14.3	14.3	14.0	14.0	14.0	14.50
	29	13.8	14.5	14.8	15.9	15.4	14.4	14.5	14.5	14.3	14.3	14.2	14.2	14.70
	30	12.9	13.8	15.2	16.1	15.4	15.2	14.8	14.3	14.3	14.2	14.2	14.2	14.34
	31	13.7	14.4	15.4	15.5	15.4	14.8	14.6	14.4	14.4	14.3	14.4	14.2	14.46
Hourly Means.		14.29	15.01	15.69	15.68	15.55	15.07	14.92	14.68	14.62	14.47	14.44	14.41	14.72

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE

AUGUST.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	276	276	280	293	287	295	299	298	311	323	324	319	—
2	274	286	286	283	282	285	301	311	316	319	315	310	—
3	290	293	287	287	289	295	299	300	312	315	316	311	—
4	280	282	283	283	285	290	299	305	314	324	323	315	—
5	285	287	290	290	291	293	300	319	326	327	324	320	—
6	290	290	290	290	290	294	301	313	314	319	320	315	—
7	292	293	293	295	295	298	306	310	314	320	321	319	—
8	295	295	297	304	304	305	310	320	325	335	337	334	—
9	277	286	287	296	297	302	305	324	334	328	311	304	—
10	285	282	283	285	291	291	300	302	302	306	305	308	—
11	292	294	295	296	299	301	314	314	323	319	319	324	—
12	272	275	281	287	285	291	300	301	312	325	328	321	—
13	282	283	286	290	292	301	315	326	315	310	319	311	—
14	269	271	279	284	272	268	285	288	300	308	318	305	—
15	272	275	277	278	275	278	283	291	298	310	318	310	—
16	264	281	275	274	278	283	289	296	308	316	312	304	—
17	271	274	273	271	271	285	292	309	321	329	329	322	—
18	281	280	280	281	279	284	292	301	306	308	309	307	—
19	277	282	278	280	282	285	292	305	310	315	319	318	—
20	287	290	290	291	295	298	307	315	324	334	329	326	—
21	259	264	262	276	271	284	290	305	305	312	311	308	—
22	264	265	274	277	278	282	292	304	314	318	314	306	—
23	277	277	286	283	283	287	297	309	318	319	314	310	—
24	275	274	285	285	286	288	297	310	324	328	328	316	—
25	287	287	290	295	291	300	309	324	328	337	333	328	—
26	287	301	300	295	294	306	310	329	335	352	348	337	—
27	262	267	273	282	276	276	291	300	304	306	312	310	—
28	281	271	274	276	291	293	305	319	328	335	326	312	—
29	277	278	277	286	279	285	297	315	319	323	319	313	—
30	270	271	275	276	272	284	296	309	319	321	320	319	—
31	276	276	273	277	278	281	291	304	310	318	320	314	—
Hourly Means.	278.3	280.8	282.5	285.4	285.1	289.9	298.8	308.9	315.8	321.3	320.7	315.4	—

AUGUST.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	300	290	277	273	277	282	282	284	282	289	282	274	290.5
2	289	296	291	278	277	282	277	275	278	274	283	285	289.7
3	315	305	290	283	278	277	277	277	276	276	277	277	291.8
4	308	303	290	284	281	281	282	283	281	285	283	286	292.9
5	316	306	295	285	284	287	287	287	287	285	290	287	297.8
6	309	300	291	285	285	287	289	290	291	290	287	290	296.7
7	311	305	300	291	291	294	293	295	290	291	295	296	300.3
8	315	308	297	296	282	272	277	277	281	283	280	283	300.5
9	297	293	286	281	283	288	287	287	287	285	283	286	295.6
10	299	297	298	287	291	291	292	289	293	289	291	294	293.8
11	322	301	274	268	258	259	259	256	256	266	268	268	289.4
12	310	300	294	286	273	268	267	267	274	272	274	280	289.3
13	276	266	279	275	272	267	252	263	253	247	267	268	284.0
14	302	288	271	263	258	262	264	264	265	269	271	272	279.0
15	305	297	285	274	277	267	250	250	268	268	272	273	281.3
16	295	288	265	274	272	268	264	268	266	270	269	272	281.3
17	312	302	288	284	276	271	268	268	282	281	280	284	289.2
18	304	296	280	275	271	273	274	275	272	273	273	277	285.5
19	315	298	283	273	274	278	281	281	283	282	286	283	290.0
20	320	302	282	264	255	242	228	219	193	221	232	270	279.8
21	307	295	286	281	276	269	262	257	266	271	271	268	281.5
22	301	290	278	272	272	276	273	271	273	277	276	279	284.4
23	309	301	290	283	282	286	281	272	274	270	268	271	289.5
24	309	300	295	286	283	283	281	282	284	284	286	286	294.0
25	325	319	294	285	283	295	287	281	258	262	281	291	298.8
26	320	315	311	282	252	244	245	257	249	260	290	268	295.3
27	290	281	268	255	252	267	264	265	286	262	263	266	278.3
28	290	269	276	273	271	274	272	272	264	275	272	277	287.3
29	294	287	279	264	257	267	270	269	271	262	262	276	284.4
30	306	296	276	262	255	261	269	275	275	272	277	272	284.5
31	310	299	285	281	272	272	274	277	277	278	274	280	287.4
Hourly Means.	305.8	296.5	285.6	277.5	273.2	273.9	271.9	272.0	272.1	273.2	276.2	278.6	289.1

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	465	464	461	452	457	451	449	442	445	436	430	431	—
	2	465	458	455	458	456	451	441	449	452	450	458	459	—
	3	463	460	464	464	462	454	450	446	438	433	430	439	—
	4	470	469	468	468	467	459	450	444	450	454	453	455	—
	5	469	467	465	465	466	461	457	456	455	450	448	437	—
	6	470	470	470	471	470	467	466	463	461	455	436	427	—
	7	465	464	464	464	464	459	458	453	454	449	449	443	—
	8	463	463	463	459	462	459	460	474	473	471	469	472	—
	9	484	477	477	473	474	472	477	457	450	450	468	463	—
	10	468	468	468	467	464	462	468	470	469	457	449	452	—
	11	465	465	464	464	463	463	463	481	477	473	473	464	—
	12	480	478	475	472	475	470	469	472	477	475	486	480	—
	13	474	473	470	468	467	461	452	459	464	468	472	472	—
	14	482	481	479	475	482	481	473	473	468	463	468	482	—
	15	486	485	483	483	483	480	476	469	472	466	463	467	—
	16	486	476	478	476	474	468	464	472	472	468	482	490	—
	17	485	482	482	481	481	472	468	449	445	441	445	452	—
	18	468	468	468	466	466	460	459	451	453	444	437	443	—
	19	466	463	464	463	459	455	454	463	465	458	444	430	—
	20	457	455	455	453	451	446	441	437	436	425	425	427	—
	21	460	459	461	457	458	450	450	441	443	437	431	433	—
	22	468	468	460	459	459	455	454	473	463	455	458	467	—
	23	487	486	482	485	485	478	478	477	475	481	490	488	—
	24	489	489	482	482	484	481	484	495	486	482	476	479	—
	25	491	491	491	488	490	481	482	477	486	482	477	475	—
	26	467	456	459	466	467	455	459	467	477	469	468	477	—
	27	487	481	477	471	476	472	468	465	463	459	457	460	—
	28	474	478	476	473	460	460	459	465	472	469	466	465	—
	29	477	476	475	473	474	468	464	463	472	473	479	482	—
	30	490	486	482	482	480	472	472	470	467	462	469	474	—
	31	486	485	484	481	478	473	466	471	467	463	460	463	—
Hourly Means.		474.4	472.3	471.0	469.6	469.5	464.4	462.3	462.7	462.8	458.6	458.6	459.6	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
AUGUST.	1	441	442	445	449	454	458	460	461	463	459	464	467	451.9
	2	458	446	454	465	470	470	473	473	473	473	468	465	460.0
	3	437	447	458	467	475	475	476	474	476	475	473	473	458.7
	4	454	453	461	472	478	477	475	473	474	471	472	468	464.0
	5	428	441	460	472	478	477	476	475	475	475	472	472	462.4
	6	433	447	461	468	473	474	472	469	468	468	468	466	462.2
	7	447	448	459	468	477	476	475	472	473	470	466	461	461.6
	8	482	487	497	502	507	504	498	495	491	486	486	482	479.4
	9	460	461	466	473	478	477	478	477	476	474	473	468	470.1
	10	454	450	450	460	468	476	475	476	476	478	472	467	465.2
	11	450	454	473	481	491	495	495	496	495	490	485	484	475.2
	12	481	481	476	480	489	492	493	493	489	487	484	478	480.5
	13	475	479	476	472	480	488	498	495	499	500	491	484	476.5
	14	489	491	486	489	495	495	495	495	495	492	490	488	483.6
	15	461	464	471	481	484	490	500	498	486	485	482	482	479.0
	16	494	487	493	486	486	490	493	491	491	489	489	486	482.5
	17	455	460	464	463	476	480	481	479	474	472	471	468	467.8
	18	450	449	464	474	480	478	476	475	474	473	472	468	463.2
	19	421	435	458	467	469	471	468	467	465	463	462	460	457.9
	20	427	434	449	466	480	484	490	490	496	486	477	455	455.9
	21	437	446	458	464	470	473	475	476	469	464	466	466	456.0
	22	475	480	489	496	500	497	497	499	496	493	492	487	476.7
	23	481	489	500	504	503	500	500	502	500	499	497	491	489.9
	24	483	479	484	495	505	508	509	505	503	500	496	493	490.4
	25	473	470	483	489	487	481	485	490	503	495	476	467	483.8
	26	486	482	490	500	514	522	509	501	504	493	476	486	481.3
	27	479	482	486	489	490	485	490	490	481	493	491	487	478.3
	28	479	473	467	473	481	483	485	488	491	482	485	483	474.5
	29	495	494	493	498	507	500	496	495	498	500	499	486	484.9
	30	482	482	483	487	498	495	493	490	491	491	489	490	482.4
	31	468	476	482	484	491	496	497	495	495	495	495	493	481.0
Hourly Means.		462.4	464.8	472.1	478.5	485.0	486.0	486.5	485.6	485.2	482.9	480.0	476.5	472.1

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30′.0 + THE NUMBERS IN THE TABLE

SEPTEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	13.6	13.7	13.9	14.0	13.9	13.9	13.7	12.6	11.5	11.1	11.7	12.6	—
2	14.0	14.1	14.2	14.4	14.6	14.8	15.0	13.9	12.6	12.2	12.5	12.5	—
3	13.9	13.9	14.0	14.0	14.0	13.9	14.0	13.7	12.7	12.7	12.8	12.7	—
4	14.0	14.2	14.4	14.0	14.3	14.8	15.1	14.6	13.5	12.8	12.4	12.5	—
5	13.7	13.9	13.9	14.0	14.0	14.7	15.1	14.7	13.3	12.0	11.7	12.0	—
6	13.7	13.9	13.9	13.9	13.9	14.2	14.9	13.4	12.4	12.5	13.0	13.1	—
7	14.0	14.1	14.1	14.0	14.1	14.4	14.3	12.8	11.6	11.6	12.2	12.6	—
8	13.9	14.0	14.4	14.1	14.4	14.9	14.9	12.7	11.5	11.0	11.5	12.6	—
9	13.6	13.2	13.7	13.9	14.1	14.9	15.6	12.6	12.7	12.5	12.6	13.0	—
10	13.7	13.7	13.2	14.0	14.2	14.4	14.2	12.7	11.5	11.2	11.7	13.0	—
11	14.0	13.6	13.9	14.4	14.6	15.1	15.1	13.9	11.5	10.3	9.4	11.0	—
12	14.1	13.9	14.4	14.4	14.6	14.9	14.9	12.7	11.0	10.0	11.2	12.0	—
13	13.7	13.9	13.9	14.1	14.1	14.0	13.6	12.2	11.1	10.7	11.8	13.3	—
14	14.0	13.7	13.7	13.9	14.0	14.2	14.0	12.8	11.7	11.6	11.7	12.5	—
15	13.7	13.9	14.0	13.9	14.0	14.1	13.9	13.3	12.5	12.3	12.7	12.8	—
16	13.7	13.7	14.0	13.9	13.9	14.0	13.9	12.6	11.2	11.4	11.7	12.3	—
17	13.9	13.9	14.0	14.0	14.0	14.3	14.4	14.0	13.2	13.3	13.5	13.7	—
18	13.7	13.9	14.0	14.0	13.9	14.3	14.4	12.5	11.2	11.5	12.3	12.7	—
19	13.7	14.0	14.0	14.0	14.0	14.3	14.1	12.5	11.0	11.4	12.2	12.8	—
20	13.7	13.9	14.0	13.9	13.9	14.0	14.0	12.7	11.7	11.4	12.0	13.0	—
21	13.7	13.9	13.9	14.0	13.9	13.9	12.8	11.5	10.6	10.6	12.5	14.1	—
22	13.9	13.7	13.9	14.0	14.0	14.0	12.8	11.4	10.3	10.3	10.6	12.4	—
23	13.2	13.6	13.4	13.9	14.0	14.8	14.8	14.8	14.0*	13.5*	14.6*	15.1*	—
24	14.9*	15.1*	15.0*	15.0*	15.4*	16.0*	15.3*	14.0*	12.9*	13.0*	13.3*	13.6	—
25	13.9	14.0	13.9	14.6	14.8	15.3	15.0	13.4	12.0	11.8	12.0	12.2	—
26	14.7	14.8	14.7	14.8	15.0	15.6	14.8	13.4	12.6	12.8	12.8	13.5	—
27	14.6	14.7	14.8	14.8	14.9	14.9	14.1	12.6	11.5	11.6	11.7	12.5	—
28	14.3	14.8	14.9	14.9	14.9	15.0	14.4	12.3	11.1	10.4	11.6	13.3	—
29	14.6	14.6	14.6	14.8	15.0	15.1	14.7	12.5	10.4	10.0	11.1	13.7	—
30	14.6	14.3	14.3	14.1	14.6	14.9	13.6	11.6	10.6	10.0	10.3	11.7	—
Hourly Means.	13.96	14.02	14.10	14.19	14.30	14.59	14.38	13.01	11.85	11.58	12.04	12.83	—

SEPTEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	13.0	13.9	14.8	15.2	15.2	14.4	14.0	13.9	13.9	13.9	14.0	13.9	13.60
2	13.0	13.9	15.0	15.1	15.0	14.8	14.0	13.9	13.9	13.9	13.7	13.9	13.95
3	12.8	13.2	13.9	14.4	14.8	14.4	14.0	13.7	14.0	13.9	14.0	13.7	13.71
4	13.2	13.4	13.9	14.1	14.3	14.0	14.0	13.9	13.9	13.7	13.7	13.6	13.85
5	12.6	12.8	13.7	14.0	14.2	13.9	13.9	13.9	13.9	13.9	13.9	13.7	13.64
6	12.7	13.2	13.6	13.9	14.1	14.0	14.0	13.9	13.9	13.7	13.7	13.9	13.64
7	13.2	13.9	14.8	15.0	15.1	14.6	14.3	14.0	13.9	13.6	13.7	13.9	13.74
8	13.2	14.6	15.2	15.0	15.0	15.0	14.0	13.9	13.9	13.9	13.7	13.4	13.78
9	14.3	15.3	15.9	14.4	14.8	12.6	14.0	13.6	13.6	13.4	13.6	13.6	13.81
10	13.9	16.0	15.6	16.0	15.3	14.8	14.6	14.0	13.9	13.9	13.7	13.6	13.87
11	13.2	15.6	16.0	15.7	15.0	14.0	13.9	13.9	14.0	13.9	13.7	14.0	13.74
12	14.3	15.2	15.9	15.1	14.7	14.3	14.0	13.9	13.9	13.7	13.7	13.9	13.78
13	14.3	14.6	15.0	15.0	14.6	14.0	14.3	14.0	14.0	13.9	13.9	13.9	13.66
14	13.2	13.4	14.4	14.6	14.4	13.7	13.9	13.9	14.0	13.9	13.9	13.7	13.53
15	13.4	14.4	15.3	15.7	15.1	14.6	14.6	14.0	13.9	13.9	13.7	13.6	13.89
16	12.7	13.6	14.4	14.6	14.8	14.2	14.0	13.7	13.7	13.6	13.7	13.9	13.47
17	13.9	13.9	14.9	14.9	14.8	14.3	14.1	13.9	13.9	13.9	13.9	13.6	14.01
18	12.8	13.4	14.1	14.0	14.1	13.7	13.9	13.9	13.6	13.6	13.7	13.6	13.45
19	13.6	13.9	14.3	14.3	14.0	13.9	13.7	13.7	13.7	13.7	13.7	13.9	13.52
20	14.0	14.2	14.4	14.1	13.9	13.9	13.9	13.7	13.7	13.9	13.9	13.6	13.56
21	15.1	15.0	14.9	14.6	14.0	14.0	14.0	13.9	13.6	13.7	13.9	13.9	13.58
22	13.9	14.0	15.1	15.0	14.8	15.2	14.4	14.0	14.4	13.9	12.3	12.6	13.37
23	16.6*	17.8*	19.1*	18.1*	17.8*	17.3*	17.1*	16.8*	16.0*	16.4*	15.5*	14.8*	15.54
24	13.9	14.4	14.9	14.2	14.9	14.9	15.0	14.8	14.3	13.9	13.9	14.0	14.44
25	13.7	14.0	14.9	15.1	15.1	15.0	14.8	14.6	14.0	14.4	14.4	14.4	14.05
26	14.6	15.8	16.3	15.7	15.1	15.0	14.9	14.9	14.8	14.6	14.7	14.4	14.60
27	14.4	15.7	16.3	16.4	16.3	15.0	14.9	14.8	14.8	14.6	14.3	14.4	14.36
28	14.3	15.6	16.5	16.3	16.0	14.9	14.8	14.7	14.8	14.6	14.7	14.3	14.31
29	16.4	17.1	16.8	16.1	15.7	14.8	15.0	14.8	14.4	14.0	14.6	14.6	14.39
30	14.1	15.2	16.1	15.7	15.1	14.8	14.6	14.7	14.6	14.4	14.4	14.3	13.86
Hourly Means.	13.81	14.57	15.20	15.08	14.93	14.47	14.35	14.18	14.10	14.01	13.94	13.89	13.89

* From Wild's Magnetometer.

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
SEPTEMBER. 1	296	291	289	289	293	297	308	310	315	321	334	336	—
2	288	291	292	292	295	297	306	315	326	336	348	346	—
3	291	291	289	290	292	292	299	308	315	298	326	324	—
4	290	289	291	294	296	298	305	311	321	329	328	322	—
5	283	283	289	291	292	297	307	315	316	319	317	315	—
6	291	295	295	296	299	302	310	318	325	331	334	335	—
7	291	291	296	295	291	301	302	311	319	321	329	329	—
8	274	279	292	291	289	294	305	318	324	330	326	321	—
9	276	281	288	280	279	302	314	331	306	315	310	287	—
10	259	268	265	253	264	272	263	281	291	291	293	283	—
11	253	260	268	258	268	267	267	286	295	298	296	298	—
12	257	259	263	262	263	264	269	286	292	301	288	293	—
13	264	267	264	264	267	272	277	286	297	303	305	299	—
14	267	267	274	270	268	274	280	293	302	308	310	305	—
15	269	272	271	273	273	275	284	292	302	310	314	312	—
16	277	279	282	286	289	291	296	303	312	314	327	325	—
17	282	287	287	283	286	288	291	297	308	306	311	317	—
18	283	288	277	272	273	277	281	289	296	300	306	306	—
19	287	281	286	291	286	291	296	298	311	321	317	321	—
20	291	286	287	287	288	292	300	307	308	317	320	324	—
21	286	287	288	291	291	295	301	311	319	322	329	335	—
22	278	287	283	283	283	288	295	305	316	316	320	319	—
23	236	245	269	255	258	260	263	284	283	292	288	296	—
24	255	273	265	267	262	272	282	293	295	288	289	292	—
25	269	282	279	268	273	272	279	286	293	298	302	304	—
26	268	269	270	272	273	278	281	295	296	292	298	296	—
27	273	272	273	276	275	279	284	298	306	309	311	316	—
28	267	267	268	272	272	273	281	292	297	303	310	307	—
29	279	280	283	283	283	286	293	305	321	317	325	329	- -
30	284	292	286	287	284	287	296	310	321	325	329	333	—
Hourly Means.	275.5	278.6	280.3	279.0	280.2	284.4	290.5	301.1	307.6	311.0	314.7	314.2	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
SEPTEMBER. 1	328	311	301	291	288	291	292	292	290	291	286	289	301.2
2	330	319	298	283	279	284	284	287	288	283	287	291	301.9
3	319	306	298	298	295	295	293	296	289	288	285	294	298.8
4	311	303	293	288	287	286	282	281	281	284	282	286	297.4
5	311	302	293	291	292	292	291	288	286	287	288	291	297.3
6	328	320	307	301	298	295	297	297	296	295	295	293	306.4
7	321	310	293	286	282	285	283	278	276	276	276	274	296.5
8	324	294	279	281	274	260	268	272	274	268	267	272	290.7
9	279	248	225	199	174	188	194	200	225	236	248	244	259.5
10	274	258	252	222	221	199	232	234	251	247	248	248	257.0
11	277	245	233	240	241	260	254	259	245	239	259	256	263.4
12	287	276	267	243	253	253	258	260	259	260	260	262	268.1
13	288	273	262	258	263	264	264	265	262	264	261	267	273.2
14	290	282	270	264	264	267	266	265	264	265	264	268	277.0
15	306	292	277	272	268	269	269	272	273	272	269	273	281.6
16	310	304	292	286	278	277	281	283	279	280	280	284	292.3
17	311	303	291	287	285	281	281	282	280	277	277	282	290.8
18	302	295	276	281	277	280	280	274	273	277	281	285	284.5
19	314	295	286	282	282	283	278	272	281	282	280	282	291.8
20	316	305	293	289	289	288	286	284	284	282	283	287	295.5
21	331	320	306	301	296	292	291	286	288	287	282	282	300.7
22	314	311	287	279	277	260	245	249	227	215	272	253	281.8
23	265	256	226	239	225	244	245	251	263	253	270	261	259.5
24	277	267	247	249	246	234	239	253	245	255	265	268	265.8
25	287	286	278	272	261	263	263	263	277	267	267	268	277.4
26	291	276	272	273	273	267	270	266	265	267	264	273	276.9
27	309	300	290	275	262	261	267	258	258	262	262	273	281.2
28	301	286	273	265	254	269	273	275	274	277	277	278	279.6
29	320	306	289	282	279	283	283	284	291	292	283	273	293.7
30	327	319	301	288	281	279	280	279	282	283	282	286	296.7
Hourly Means.	304.9	292.3	278.5	272.2	268.1	268.3	269.6	270.2	270.9	270.4	273.3	274.8	284.6

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

SEPTEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	487	489	487	487	483	479	477	466	459	456	449	451	—
2	476	474	474	474	471	467	460	456	456	451	451	459	—
3	474	473	474	474	473	470	465	466	465	462	462	463	—
4	478	478	478	476	475	469	470	485	484	478	472	468	—
5	483	482	480	483	483	469	469	476	477	477	465	463	—
6	477	476	475	475	474	468	473	475	469	451	447	454	—
7	476	475	470	472	476	467	473	483	479	468	459	456	—
8	490	485	476	479	482	478	481	485	485	478	466	464	—
9	486	482	477	481	480	468	468	482	501	492	488	486	—
10	488	479	486	494	487	486	496	495	488	475	465	462	—
11	499	494	487	496	491	488	499	506	510	505	480	467	—
12	501	499	496	499	498	494	501	501	496	482	470	460	—
13	501	499	499	499	497	495	500	501	492	478	460	465	—
14	503	503	496	499	499	495	498	509	500	488	484	488	—
15	506	505	505	503	502	501	497	482	470	461	451	452	—
16	492	492	491	489	488	484	492	487	480	473	455	453	—
17	485	483	480	482	480	476	479	480	469	460	451	442	—
18	486	481	489	492	491	480	491	500	492	476	460	460	—
19	483	488	483	482	487	482	490	501	487	469	464	456	—
20	466	469	468	469	468	462	468	473	478	470	456	442	—
21	465	464	464	464	464	460	462	452	438	419	403	394	—
22	470	464	465	466	465	463	471	475	468	460	442	427	—
23	491	483	467	472	474	468	478	486	471	447	435	424	—
24	496	483	487	486	489	482	483	474	467	459	455	450	—
25	482	473	475	482	478	477	488	487	483	469	459	455	—
26	479	477	476	475	474	470	481	474	465	447	430	423	—
27	478	479	476	475	475	474	482	479	472	456	445	442	—
28	487	485	483	480	480	478	487	488	483	471	462	456	—
29	470	469	466	465	464	461	474	476	460	460	401	374	—
30	473	469	472	472	473	471	506	507 *	501 *	497 *	489 *	472 *	—
Hourly Means.	484.3	481.7	480.1	481.4	480.7	476.1	482.0	483.6	478.2	467.8	455.9	450.9	—

SEPTEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	454	456	458	466	474	477	477	478	479	478	480	477	471.8
2	466	467	464	472	482	480	477	478	478	479	477	474	469.3
3	464	469	471	469	470	476	480	479	481	480	482	477	471.6
4	471	469	473	478	485	487	491	491	490	486	486	483	479.2
5	469	471	475	479	480	482	485	486	486	483	482	478	477.6
6	465	478	475	479	482	485	483	482	480	478	476	476	473.0
7	462	463	477	488	493	495	496	497	497	496	492	491	479.2
8	461	486	491	494	501	509	505	499	497	501	501	492	486.9
9	481	493	509	527	544	534	525	524	504	500	492	494	496.6
10	458	460	472	503	515	528	510	511	503	504	501	501	490.3
11	464	478	493	497	501	496	503	502	515	515	503	503	495.5
12	458	469	483	504	505	506	505	504	505	505	505	501	493.6
13	476	488	497	506	509	506	508	508	509	506	506	504	496.2
14	496	501	497	496	508	510	510	510	513	512	511	509	501.5
15	461	469	478	490	499	501	501	501	501	499	502	496	488.9
16	469	476	479	482	490	492	490	488	489	488	488	485	483.0
17	451	458	465	476	485	491	492	492	491	491	490	487	476.5
18	464	467	474	478	487	490	491	493	496	492	490	486	483.6
19	449	464	470	481	482	482	485	486	478	475	475	473	478.0
20	447	454	462	466	466	467	470	470	469	471	469	467	465.3
21	405	428	442	455	465	469	472	476	475	473	475	473	452.4
22	426	437	455	469	473	487	507	499	507	514	481	483	469.8
23	441	459	488	491	503	499	496	495	489	499	491	495	476.8
24	456	465	485	491	496	506	504	495	500	493	484	483	482.0
25	460	467	468	477	485	486	487	489	481	485	485	482	477.5
26	429	449	460	470	480	486	486	491	490	489	489	482	469.7
27	442	456	470	491	500	497	492	498	497	495	492	485	477.0
28	450	456	464	475	487	481	477	476	477	476	475	473	475.3
29	388	419	447	469	473	461	462	465	465	468	474	475	454.4
30	474 *	484 *	496 *	505 *	511 *	510 *	507 *	506 *	505 *	504 *	505 *	504 *	492.2
Hourly Means.	455.2	465.2	474.6	484.1	491.0	492.5	492.5	492.3	491.6	491.2	488.6	486.3	479.5

* From Wild's Magnetometer.

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30'.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	14.1	14.3	14.4	14.4	14.4	14.3	12.7	10.8	10.3	10.4	12.3	13.7	—
	2	14.5	14.6	14.7	14.6	14.7	14.5	13.5	12.1	11.5	11.6	12.3	13.5	—
	3	14.0	14.3	14.5	14.4	14.5	14.6	13.8	12.8	12.3	11.6	12.4	14.3	—
	4	14.4	14.6	14.5	14.5	14.6	14.6	13.0	10.7	10.2	11.3	12.7	14.1	—
	5	14.4	14.6	14.6	14.6	14.6	14.1	12.8	10.7	9.2	9.8	11.2	13.5	—
	6	13.6	13.2	13.6	13.0	14.4	13.7	11.6	11.2	11.0	11.1	13.4	14.6	—
	7	13.7	14.6	13.7	13.7	14.4	14.3	12.9	11.1	9.8	10.3	12.0	13.7	—
	8	14.6	14.6	14.4	14.6	14.3	14.3	12.9	11.8	12.0	11.9	12.6	14.3	—
	9	14.4	14.5	14.4	14.3	14.1	13.8	12.6	11.4	11.0	11.5	12.6	13.8	—
	10	14.6	14.5	14.4	14.4	14.4	14.7	14.0	12.3	11.1	10.4	11.3	13.6	—
	11	14.1	14.1	14.1	14.1	14.3	14.5	13.7	12.6	12.3	12.0	12.1	13.2	—
	12	14.3	14.1	14.3	13.7	13.8	14.0	12.8	9.6	12.1	12.0	12.7	13.7	—
	13	14.1	14.1	14.1	13.7	13.8	13.9	13.5	13.0	12.3	11.5	12.2	13.5	—
	14	14.1	13.7	13.8	13.9	13.9	14.4	13.2	11.5	11.9	12.3	12.4	13.7	—
	15	14.1	13.8	14.1	14.3	14.4	14.6	13.5	12.4	11.5	11.1	11.5	13.5	—
	16	14.1	14.5	14.5	14.8	15.3	13.7	13.7	12.6	12.3	12.4	13.2	14.4	—
	17	14.1	14.5	14.3	14.1	14.1	14.5	13.7	12.8	12.4	12.1	12.4	13.7	—
	18	14.6	14.6	14.5	14.4	14.4	14.3	14.1	13.5	12.8	12.8	13.7	14.8	—
	19	13.8	13.8	13.9	13.8	13.7	15.1	13.7	12.4	12.7	12.4	13.2	13.9	—
	20	14.0	13.7	14.4	13.9	14.6	14.3	12.7	13.0	12.1	11.5	12.7	13.7	—
	21	14.1	13.7	14.1	14.0	14.0	14.0	13.0	12.6	12.6	12.2	12.7	14.3	—
	22	13.8	13.8	13.8	14.1	14.1	13.8	13.2	12.3	12.3	12.6	13.4	14.0	—
	23	14.3	14.5	14.5	14.4	14.4	14.4	13.6	12.6	11.8	11.4	12.4	14.5	—
	24	14.0	13.9	13.7	13.7	13.7	14.4	13.5	12.4	11.5	12.0	12.7	14.3	—
	25	13.7	13.8	13.9	13.8	14.3	14.7	14.3	13.6	13.1	12.7	13.6	14.8	—
	26	13.8	14.3	14.4	14.4	14.4	14.6	13.7	12.7	12.4	12.1	12.8	14.3	—
	27	14.4	14.0	14.1	14.1	14.1	14.5	13.6	12.4	12.1	12.1	12.7	14.5	—
	28	14.3	14.5	14.4	14.4	14.6	14.9	13.8	12.6	11.9	11.4	11.9	13.2	—
	29	13.7	13.8	13.7	13.8	13.7	13.4	12.3	11.4	11.2	11.2	11.9	13.1	—
	30	13.8	13.8	13.7	13.7	13.7	13.6	13.0	12.3	12.1	12.1	12.4	13.8	—
	31	13.5	13.5	13.5	13.4	13.4	13.4	12.7	12.7	13.2	13.5	13.8	14.8	—
Hourly Means.		14.10	14.14	14.16	14.10	14.23	14.25	13.26	12.13	11.77	11.72	12.55	13.96	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	14.6	15.4	15.5	14.8	14.6	14.4	14.4	14.4	14.4	14.3	14.3	14.3	13.81
	2	14.6	14.6	14.9	14.6	14.5	14.5	14.4	14.4	14.4	14.3	14.3	14.1	13.99
	3	15.9	15.7	15.5	14.6	14.6	14.5	14.3	14.1	14.1	14.0	14.3	14.4	14.15
	4	15.7	15.6	14.9	14.6	14.7	14.6	14.9	14.8	14.6	14.4	14.4	14.3	14.03
	5	14.7	15.5	15.7	15.3	15.4	14.9	14.9	14.8	14.6	14.3	13.6	13.1	13.79
	6	15.1	15.4	15.9	15.5	14.8	14.5	14.4	13.6	13.9	13.7	13.8	13.5	13.69
	7	15.7	16.7	16.4	15.5	14.5	14.3	14.6	13.5	13.8	13.7	14.1	14.4	13.81
	8	14.9	15.3	15.4	14.7	14.6	14.5	14.7	14.3	14.1	14.1	14.1	14.4	14.06
	9	14.9	15.5	15.4	14.9	14.8	14.8	14.8	14.9	14.8	14.7	14.6	14.4	14.04
	10	16.4	16.9	16.5	15.3	14.7	14.7	14.8	14.6	14.6	14.4	14.3	14.0	14.20
	11	14.8	15.5	15.5	14.9	14.9	14.6	14.6	14.4	14.4	14.3	14.1	14.3	14.06
	12	15.1	15.5	16.1	15.3	14.9	14.6	14.7	14.6	14.6	14.4	14.4	14.1	13.98
	13	14.8	15.4	15.7	15.4	14.9	14.7	14.7	14.6	14.6	14.1	13.8	13.8	14.01
	14	14.9	15.5	15.7	15.2	14.8	14.6	14.7	14.5	14.4	14.3	14.3	13.8	13.98
	15	14.9	15.5	15.4	14.9	14.6	14.6	14.6	14.4	13.9	13.8	14.0	13.9	13.89
	16	14.9	15.6	15.3	14.8	14.9	14.6	14.4	14.1	14.0	13.7	13.7	14.1	14.15
	17	14.8	15.1	15.3	14.9	14.8	14.4	14.5	14.1	14.1	14.1	14.3	14.4	14.06
	18	16.3	16.4	16.1	15.3	14.6	14.4	14.4	14.3	14.1	13.8	13.9	13.7	14.41
	19	14.6	15.5	15.5	14.8	14.8	14.9	14.9	14.4	14.3	13.4	13.5	13.6	14.03
	20	14.4	14.6	14.9	14.6	14.6	14.8	13.5	14.1	14.6	14.1	14.0	13.8	13.86
	21	15.9	16.1	15.9	15.9	15.3	14.9	14.5	14.7	14.5	13.8	13.8	13.7	14.18
	22	14.7	14.9	15.3	14.7	14.6	14.7	14.5	14.4	13.7	14.3	14.4	14.4	13.99
	23	15.9	15.9	15.1	14.8	14.7	15.3	14.7	14.6	14.6	14.3	14.1	14.0	14.20
	24	15.2	14.6	14.5	14.5	14.5	14.4	14.4	14.3	14.1	13.8	13.7	13.7	13.81
	25	16.0	15.7	15.4	14.8	14.7	14.7	14.7	14.7	14.5	14.3	14.1	13.8	14.32
	26	15.5	15.7	15.9	15.1	14.8	14.7	14.7	14.6	14.7	14.4	14.3	13.8	14.25
	27	15.4	15.9	16.0	15.3	14.7	14.5	14.6	14.4	14.3	14.3	14.4	14.3	14.20
	28	14.1	14.8	15.7	14.9	14.7	14.3	14.1	13.7	13.7	13.5	13.4	13.5	13.85
	29	14.6	14.5	14.7	14.3	14.1	14.3	14.3	14.0	13.9	13.7	13.8	13.7	13.46
	30	15.7	15.9	15.5	14.3	14.3	14.0	14.3	14.3	13.8	13.7	13.6	13.5	13.79
	31	16.8	16.7	15.3	14.6	14.6	14.5	14.5	14.4	14.1	13.8	13.7	13.7	14.09
Hourly Means.		15.22	15.55	15.51	14.94	14.71	14.59	14.53	14.35	14.26	14.06	14.04	13.95	14.00

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER.	1	287	286	287	290	292	297	304	320	332	339	333	334	—
	2	285	283	282	287	285	285	292	305	315	320	325	328	—
	3	286	286	285	286	289	293	305	315	323	334	348	334	—
	4	282	286	286	283	282	282	287	300	306	314	320	315	—
	5	291	292	291	294	299	304	309	327	343	354	356	348	—
	6	259	266	272	290	278	276	282	288	300	307	284	275	—
	7	274	280	281	275	286	286	291	304	310	300	300	303	—
	8	290	287	283	288	286	278	291	306	314	315	315	310	—
	9	282	282	295	288	288	290	297	305	314	319	327	323	—
	10	292	287	288	282	285	282	283	286	305	318	320	320	—
	11	281	282	289	292	291	295	301	314	324	326	338	334	—
	12	282	283	285	290	291	294	302	310	321	332	340	334	—
	13	287	290	291	293	294	296	302	314	324	337	343	340	—
	14	312	305	299	301	291	299	302	301	305	309	319	325	—
	15	281	293	290	286	288	291	297	301	312	324	324	319	—
	16	295	283	280	284	285	290	285	287	295	305	309	307	—
	17	279	281	280	284	281	283	286	291	295	297	309	314	—
	18	282	286	289	290	290	291	298	304	310	316	319	319	—
	19	252	266	269	276	272	270	270	282	288	293	288	291	—
	20	268	276	281	282	283	285	282	277	288	300	295	300	—
	21	262	273	276	283	276	285	287	278	281	286	291	292	—
	22	277	291	285	284	276	278	290	291	296	300	293	298	—
	23	280	285	285	286	288	286	291	290	295	299	302	301	—
	24	278	279	285	287	288	286	285	291	290	292	291	286	—
	25	277	276	276	276	280	283	286	294	304	310	313	310	—
	26	285	286	288	291	291	296	305	310	315	323	323	321	—
	27	286	300	292	294	295	296	302	311	319	328	330	324	—
	28	290	291	293	295	295	294	300	304	305	305	303	302	—
	29	263	269	276	273	277	278	283	288	300	304	306	304	—
	30	277	279	283	281	282	282	282	290	297	303	307	306	—
	31	276	275	276	277	276	276	283	292	304	310	320	318	—
Hourly Means.		280.6	283.4	284.5	286.1	285.8	287.3	292.3	299.2	307.4	313.5	315.8	314.0	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER.	1	323	305	297	295	288	287	286	286	282	279	282	286	299.9
	2	315	304	291	288	291	283	283	282	282	282	285	286	294.3
	3	286	263	252	263	273	273	286	282	285	283	282	280	291.3
	4	300	291	283	287	289	286	280	278	285	290	292	288	291.3
	5	336	326	309	311	300	291	280	276	275	277	282	281	306.3
	6	280	277	253	258	248	266	257	275	266	266	271	284	274.1
	7	296	282	276	275	278	282	277	278	264	280	268	273	284.1
	8	310	294	282	283	274	280	263	272	267	273	278	281	288.3
	9	310	314	282	276	277	276	284	267	269	272	282	282	291.7
	10	305	291	285	279	278	277	277	278	279	278	279	279	288.9
	11	324	311	299	293	288	282	284	285	287	282	283	280	298.5
	12	329	316	301	295	290	286	285	283	282	280	278	286	299.0
	13	329	314	302	295	287	284	282	288	286	310	303	326	304.9
	14	318	303	287	290	291	292	282	284	280	282	278	282	297.4
	15	310	300	295	291	289	287	282	282	283	287	282	276	294.6
	16	290	276	275	276	276	278	280	277	277	277	277	281	285.2
	17	310	300	294	295	291	291	284	276	280	282	278	280	289.2
	18	307	303	298	295	288	287	286	289	291	293	282	276	295.4
	19	291	295	284	281	272	257	264	269	272	275	277	269	276.0
	20	300	294	283	272	263	234	254	262	260	261	257	261	275.8
	21	290	266	256	263	271	268	278	270	276	286	277	277	277.0
	22	291	285	271	266	266	264	276	272	295	279	277	278	282.5
	23	291	282	272	276	272	263	267	262	248	262	269	276	280.3
	24	285	280	272	275	276	276	278	283	278	278	282	277	282.4
	25	300	292	290	286	284	280	281	277	272	273	278	284	286.8
	26	309	297	292	293	309	299	300	301	296	293	295	295	300.5
	27	317	317	311	304	300	299	300	298	300	294	291	290	304.1
	28	301	295	286	291	288	288	282	283	277	276	268	268	290.8
	29	296	293	282	276	271	273	273	275	274	277	278	277	281.9
	30	298	290	277	271	267	268	272	271	272	273	276	273	282.4
	31	313	303	293	286	281	277	272	271	267	266	262	274	285.3
Hourly Means.		305.2	295.5	284.8	283.4	281.2	278.5	278.5	278.5	277.6	279.5	279.0	280.8	289.7

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER. 1	465*	464*	463*	463*	463*	465*	469*	463*	450*	435*	426	419	—
2	474	473	475	471	473	475	481	478	465	456	454	455	—
3	489	490	490	489	489	488	493	498	480	465	456	457	—
4	493	489	490	493	494	494	505	500	474	443	436	433	—
5	485	485	486	485	483	486	492	474	454	429	411	410	—
6	496	491	481	475	478	484	492	497	486	464	466	462	—
7	488	482	484	488	482	484	498	489	478	468	449	442	—
8	474	475	480	478	480	488	484	475	469	470	462	456	—
9	482	483	477	480	483	486	492	488	475	462	448	447	—
10	481	484	485	489	488	489	501	490	478	466	447	427	—
11	480	478	472	471	472	471	477	466	466	464	457	444	—
12	483	480	479	475	475	474	481	473	460	448	443	440	—
13	483	481	480	479	479	475	482	488	479	467	454	448	—
14	484	492	493	488	491	485	489	480	464	457	444	428	—
15	488	483	481	484	484	482	493	492	479	486	452	442	—
16	483	492	494	490	488	486	498	498	484	475	465	457	—
17	496	496	496	493	494	493	498	497	489	484	471	452	—
18	496	493	492	492	493	491	496	489	480	475	466	453	—
19	510	498	499	489	490	491	504	502	493	489	485	484	—
20	494	489	485	483	482	482	490	501	493	480	470	465	—
21	501	493	492	489	495	496	502	506	501	488	466	452	—
22	495	486	490	492	498	498	501	507	498	491	486	474	—
23	494	492	492	492	492	494	498	485	480	470	455	447	—
24	490	489	488	488	489	492	502	498	495	488	476	475	—
25	499	498	496	496	493	490	499	492	486	475	461	458	—
26	484	483	482	480	479	480	484	481	475	465	448	443	—
27	493	483	486	484	484	483	488	484	477	464	448	443	—
28	488	486	484	481	480	480	484	499	496	493	482	471	—
29	506	500	494	495	494	495	498	479	468	466	460	451	—
30	489	488	484	487	487	484	489	489	483	475	462	448	—
31	493	493	493	493	493	491	490	477	470	465	456	457	—
Hourly Means.	488.9	486.7	485.9	484.9	485.3	485.5	491.9	488.2	478.2	468.5	456.8	449.7	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
OCTOBER. 1	425	450	466	473	480	477	477	475	475	478	475	474	461.3
2	464	475	488	493	493	494	493	493	492	493	491	489	478.7
3	481	500	520	516	507	502	492	495	495	493	495	494	490.6
4	448	475	491	494	492	492	494	495	491	487	484	487	482.3
5	423	438	460	466	477	482	492	493	491	488	483	483	469.0
6	466	479	498	499	506	494	500	491	494	493	489	479	485.8
7	441	453	474	487	491	488	491	495	500	488	490	486	479.8
8	462	470	482	486	492	493	501	496	497	493	488	483	480.6
9	457	477	488	496	495	494	493	502	501	496	488	488	482.4
10	434	456	472	487	488	487	489	488	486	485	484	483	477.7
11	448	463	475	482	484	484	484	484	484	486	485	487	473.5
12	442	454	470	479	486	488	489	490	490	492	491	485	473.6
13	456	464	473	483	493	499	499	496	497	484	488	477	479.3
14	434	447	465	476	480	482	488	489	491	491	490	489	475.7
15	452	466	479	484	491	491	493	494	494	491	494	497	482.2
16	468	482	484	492	494	497	497	498	497	497	497	497	487.9
17	449	462	479	485	492	495	499	504	500	498	498	497	488.2
18	462	473	489	497	503	500	498	495	492	491	495	497	487.8
19	482	487	497	498	502	507	504	502	498	500	493	497	495.9
20	470	483	496	503	508	527	518	509	504	505	507	502	493.6
21	459	482	493	498	497	501	500	502	498	492	497	497	491.5
22	477	488	502	507	508	507	502	504	494	500	501	497	496.0
23	459	476	488	492	496	502	502	507	514	503	497	492	488.3
24	484	498	499	498	496	497	498	497	500	501	498	501	493.2
25	470	488	496	497	497	497	495	498	501	498	493	488	490.0
26	456	471	481	485	479	484	486	488	491	494	493	490	478.4
27	449	459	467	478	482	484	484	486	486	489	490	490	477.5
28	466	473	486	489	493	496	499	498	503	504	508	507	489.4
29	457	475	480	489	494	490	489	489	491	490	490	489	484.5
30	451	475	486	489	493	495	495	495	495	494	494	494	484.2
31	462	471	484	498	501	501	499	499	499	500	500	492	486.5
Hourly Means.	456.6	471.3	484.1	490.2	493.2	494.4	494.8	495.1	494.9	493.4	492.5	490.6	483.4

* From Wild's Magnetometer.

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30′.0 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	13.9	13.9	13.7	13.6	12.9	13.6	13.1	12.1	11.6	11.8	12.8	14.0	—
	2	12.8	13.2	12.7	12.8	12.1	11.7	11.6	12.8	13.2	14.3	15.0	15.7	—
	3	13.7	13.7	13.9	13.6	13.5	13.7	13.6	12.7	12.7	13.3	14.0	15.2	—
	4	13.9	13.9	13.9	13.7	13.7	13.4	13.5	13.3	13.3	13.9	14.0	15.0	—
	5	14.0	13.9	13.9	13.6	13.4	12.5	12.3	12.3	12.7	13.4	14.4	14.9	—
	6	13.9	13.7	13.7	13.5	13.3	12.5	11.7	11.6	12.3	13.3	13.9	14.8	—
	7	14.0	13.9	14.0	13.9	13.4	12.5	12.3	11.5	11.5	12.3	13.7	15.1	—
	8	13.7	13.6	13.6	13.5	13.4	13.2	12.4	11.6	12.3	12.9	14.3	15.2	—
	9	14.0	14.0	14.0	13.7	13.6	12.8	12.6	11.6	11.3	11.5	12.8	14.8	—
	10	13.6	13.4	12.6	11.7	11.8	11.3	11.9	11.2	11.2	12.4	14.5	15.9	—
	11	13.9	14.0	14.0	14.3	14.0	13.2	12.6	11.5	11.3	11.6	12.4	13.7	—
	12	13.7	13.9	14.0	14.0	14.0	13.9	13.7	12.7	12.3	12.7	13.7	14.8	—
	13	13.9	13.6	13.7	13.5	13.6	12.8	12.8	12.1	11.7	11.9	12.8	13.9	—
	14	13.7	13.6	13.6	13.4	13.5	12.8	12.7	12.6	12.5	12.6	13.4	14.4	—
	15	13.7	13.6	13.7	13.6	13.4	12.8	13.2	12.7	12.9	12.8	13.6	14.3	—
	16	13.1	13.2	13.1	13.1	12.9	12.9	12.9	11.8	11.7	11.7	12.7	14.0	—
	17	13.7	13.7	13.6	13.9	13.6	12.8	12.1	11.6	11.3	11.9	12.7	14.0	—
	18	12.7	12.9	12.7	13.3	13.4	12.5	11.8	11.5	12.1	12.9	14.1	14.9	—
	19	13.2	13.3	13.4	13.2	13.1	12.5	11.6	10.7	10.5	11.0	12.3	13.9	—
	20	13.3	13.4	13.3	13.3	13.4	13.2	13.7	13.7	13.7	14.0	14.8	14.0	—
	21	13.4	13.4	13.4	13.2	12.8	11.8	11.2	11.1	11.5	11.7	12.7	14.3	—
	22	13.3	13.2	13.1	12.8	12.8	11.6	10.3	9.9	11.0	12.5	14.1	15.1	—
	23	13.5	13.5	13.6	13.6	13.6	13.6	12.6	11.5	11.3	11.6	12.9	14.3	—
	24	13.3	13.1	13.2	12.9	12.9	12.8	12.7	12.5	12.5	12.8	13.9	15.4	—
	25	13.6	14.0	13.5	13.6	13.2	12.7	11.7	11.1	10.5	11.0	11.0	11.9	—
	26	13.2	12.7	13.1	12.7	12.7	12.7	12.4	11.7	11.6	11.5	12.1	13.4	—
	27	13.1	12.6	13.7	13.4	14.4	14.2	13.9	12.9	11.6	11.6	12.6	13.7	—
	28	12.7	13.2	12.9	13.2	13.4	13.7	13.4	12.5	11.7	11.5	11.5	12.7	—
	29	10.4	11.3	11.5	11.6	11.8	11.9	12.1	11.7	12.0	12.0	11.9	12.8	—
	30	12.7	12.7	12.5	12.6	12.7	12.8	12.7	12.8	12.8	12.7	13.4	13.7	—
Hourly Means.		13.39	13.40	13.39	13.29	13.21	12.81	12.50	11.98	11.95	12.37	13.27	14.33	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	15.9	18.5	18.9	18.0	16.7	15.8	14.8	14.8	14.8	12.8	13.3	13.2	14.35
	2	16.0	16.0	16.4	16.0	15.2	14.9	13.9	14.1	13.6	13.4	13.9	13.7	13.96
	3	16.0	16.0	16.2	15.4	15.3	14.5	14.4	13.2	14.0	13.6	13.6	13.7	14.15
	4	16.1	15.9	15.9	14.5	14.3	14.1	14.1	13.9	13.7	13.9	13.9	13.9	14.15
	5	15.8	15.9	15.7	15.1	14.8	13.6	14.5	14.2	13.9	13.6	13.7	13.6	13.99
	6	15.8	15.7	15.6	14.8	14.4	14.8	14.5	14.2	14.0	13.9	13.9	13.7	13.90
	7	15.9	15.8	15.3	14.5	14.5	14.8	14.8	14.1	14.0	13.9	13.9	13.7	13.89
	8	15.8	15.6	15.2	15.0	14.9	14.7	14.3	14.1	13.9	13.7	13.7	13.7	13.93
	9	16.0	16.2	16.0	15.8	14.9	14.0	14.2	14.0	14.0	13.9	14.0	13.9	13.90
	10	16.0	16.0	16.0	15.4	14.8	14.5	14.4	14.0	14.1	13.9	13.9	14.0	13.69
	11	15.6	16.1	16.2	15.1	14.7	14.2	14.1	13.9	13.7	13.6	13.6	13.4	13.78
	12	15.4	15.6	15.9	15.6	14.8	14.2	14.0	13.9	13.9	13.9	13.9	13.9	14.10
	13	14.8	15.1	15.1	14.3	13.9	13.7	13.7	13.7	13.7	13.6	13.6	13.6	13.53
	14	15.1	15.8	15.6	14.8	14.5	13.9	14.0	13.9	14.0	13.9	13.9	13.7	13.83
	15	14.9	15.4	15.7	15.1	14.9	14.0	13.7	13.7	13.6	13.5	13.3	12.7	13.78
	16	15.0	15.7	16.0	15.8	15.3	14.4	14.1	13.7	13.9	13.7	13.7	13.6	13.67
	17	15.1	15.4	16.5	15.7	15.6	15.0	14.8	15.0	14.7	13.7	13.6	12.6	13.86
	18	15.8	15.9	15.7	15.1	14.9	14.0	14.3	13.5	13.9	13.3	12.6	13.3	13.63
	19	14.8	14.8	14.8	14.5	14.4	13.9	14.0	13.7	13.6	13.4	13.5	13.3	13.23
	20	15.6	15.7	15.4	14.7	14.7	14.3	13.9	13.9	13.9	13.6	13.4	13.4	14.01
	21	14.9	15.1	14.9	14.4	14.2	13.9	13.9	13.6	13.6	13.4	13.4	13.3	13.30
	22	16.1	16.2	16.2	14.9	14.3	13.9	13.9	13.6	13.7	13.6	13.6	13.5	13.47
	23	14.7	15.0	14.9	14.5	13.9	13.6	13.5	13.5	13.5	13.3	13.4	12.9	13.43
	24	15.8	15.8	15.2	14.5	14.0	13.7	13.7	13.6	13.7	13.7	13.7	13.3	13.70
	25	13.4	14.8	14.8	14.7	14.3	13.3	13.3	13.5	13.4	12.7	12.7	12.7	12.98
	26	14.9	15.4	15.0	14.3	13.9	13.9	14.0	13.7	12.8	12.3	12.7	12.6	13.14
	27	14.0	14.3	14.5	14.2	13.7	13.7	13.6	13.4	12.9	12.8	12.8	13.2	13.37
	28	13.3	14.3	14.8	14.9	14.4	14.4	14.1	13.9	13.7	13.3	12.6	12.5	13.28
	29	14.8	15.4	15.7	15.0	14.7	13.9	13.5	13.6	13.2	13.1	12.8	12.7	12.89
	30	15.0	15.1	15.3	14.8	14.8	14.8	14.0	13.9	13.9	13.6	13.1	13.1	13.56
Hourly Means.		15.28	15.62	15.65	15.05	14.66	14.21	14.07	13.86	13.78	13.49	13.46	13.35	13.68

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER.	1	290	282	272	275	285	288	290	302	309	319	319	328	—
	2	219	231	251	237	240	239	242	238	244	238	240	237	—
	3	251	257	257	260	257	263	261	266	265	264	264	252	—
	4	260	258	259	257	260	266	270	280	285	267	282	280	—
	5	260	262	263	266	266	268	272	280	283	292	293	288	—
	6	254	257	261	266	264	271	276	271	289	295	295	294	—
	7	267	270	269	270	275	279	284	291	299	307	301	300	—
	8	265	270	274	274	275	276	285	298	304	306	304	295	—
	9	276	276	276	283	280	284	288	289	293	299	299	303	—
	10	276	282	295	313	305	318	285	327	330	327	323	314	—
	11	275	271	275	282	277	278	281	288	296	300	301	300	—
	12	284	279	280	282	287	286	293	291	294	294	298	299	—
	13	283	284	284	284	284	284	288	294	299	307	314	313	—
	14	285	286	285	289	285	290	294	303	314	322	323	323	—
	15	289	293	291	294	291	290	295	298	303	305	304	303	-
	16	288	290	294	286	279	276	276	285	290	303	307	302	—
	17	281	282	282	287	286	285	289	297	310	315	317	318	—
	18	265	265	271	269	275	277	278	288	289	295	298	294	-
	19	261	270	272	272	275	280	286	284	288	294	289	285	—
	20	276	280	284	278	279	283	285	294	301	309	309	304	-
	21	272	276	284	280	282	285	290	300	305	307	295	287	—
	22	277	282	285	286	286	286	310	326	304	321	299	310	—
	23	276	279	279	282	282	280	286	290	303	308	299	294	-
	24	275	276	276	280	280	281	289	302	313	318	320	317	—
	25	294	298	290	289	282	285	291	298	294	295	299	298	—
	26	278	285	288	290	286	289	290	294	304	305	304	301	—
	27	265	267	272	274	267	268	284	270	265	271	267	257	—
	28	290	267	276	270	273	275	272	265	264	261	269	260	-
	29	309	304	251	252	255	256	252	251	257	257	262	261	—
	30	253	257	261	263	265	267	270	276	276	286	284	283	—
Hourly Means.		273.1	274.5	275.2	276.3	276.1	278.4	281.7	287.9	292.3	296.2	295.9	293.3	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
NOVEMBER.	1	308	267	242	238	226	234	213	241	195	223	172	191	262.9
	2	246	241	232	236	233	240	261	246	256	262	247	247	241.8
	3	247	236	236	238	241	251	238	263	241	242	246	257	252.2
	4	275	271	260	257	256	257	258	262	260	246	244	252	263.4
	5	282	275	267	265	256	257	239	240	239	241	241	247	264.3
	6	284	275	266	261	262	260	260	257	261	265	266	268	269.9
	7	291	285	272	269	269	267	265	264	262	265	266	266	277.2
	8	286	279	273	270	272	275	276	277	275	276	276	277	280.8
	9	298	293	288	284	285	285	282	280	276	278	274	275	285.2
	10	305	293	277	275	279	276	276	272	272	275	275	274	293.5
	11	293	289	284	280	280	286	280	277	285	279	276	293	284.4
	12	298	291	285	285	281	284	279	284	280	280	281	282	286.5
	13	304	296	289	285	285	285	282	284	284	285	285	285	290.3
	14	317	311	304	295	293	290	288	290	288	289	288	286	297.4
	15	303	303	299	300	296	294	288	286	289	282	279	293	294.5
	16	293	275	273	279	280	279	279	286	279	275	275	277	284.4
	17	318	314	304	285	275	279	289	257	251	256	252	275	287.7
	18	286	276	261	257	256	261	262	276	261	261	276	261	273.3
	19	282	285	281	279	279	273	274	270	272	268	267	271	277.4
	20	296	294	287	284	279	275	273	272	272	271	273	276	284.8
	21	279	276	276	276	276	275	274	272	272	274	273	276	281.8
	22	301	292	276	274	275	275	267	279	276	277	275	276	288.1
	23	295	292	288	286	285	282	281	284	282	280	279	272	286.0
	24	310	305	300	289	286	287	290	291	294	294	289	294	294.0
	25	293	282	273	272	277	275	281	271	275	291	272	274	285.4
	26	294	287	294	293	277	263	248	242	247	254	250	265	280.3
	27	242	237	239	246	246	242	239	248	238	243	238	238	255.1
	28	266	267	266	268	274	274	282	281	274	275	261	261	270.5
	29	247	246	254	253	250	250	256	246	256	250	247	253	257.3
	30	274	260	247	241	237	228	252	246	246	253	265	257	260.3
Hourly Means.		287.1	279.8	273.1	270.7	268.9	268.6	267.7	268.1	265.3	267.0	263.6	267.3	277.0

VERTICAL FORCE. A.

HOURLY OBSERVATIONS. — 0.19700 + THE NUMBERS IN THE TABLE.

NOVEMBER.	Mean Batavia Time. 1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	491	497	501	500	492	489	496	510	502	487	478	474	—
2	530	523	516	528	527	532	536	532	520	517	508	510	—
3	523	519	518	518	522	517	522	510	506	501	491	495	—
4	504	505	506	508	505	504	504	510	503	510	501	492	—
5	510	510	510	509	510	513	508	510	501	490	484	492	—
6	518	517	515	514	517	518	523	537	524	515	508	504	—
7	523	522	521	521	520	523	519	497	486	471	465	467	—
8	510	506	505	505	505	506	508	491	486	478	473	473	—
9	495	496	496	492	494	495	494	492	486	474	457	442	—
10	496	493	486	479	485	486	501	478	467	459	462	467	—
11	505	507	504	501	503	510	512	513	500	487	476	466	—
12	500	505	503	501	496	495	497	500	497	488	479	479	—
13	497	496	496	496	496	497	499	504	490	474	463	463	—
14	495	492	492	490	490	488	486	481	474	467	464	462	—
15	490	487	487	486	486	482	473	467	471	473	473	469	—
16	488	488	484	488	491	494	496	491	486	476	465	462	—
17	495	494	494	491	492	496	496	499	487	476	472	464	—
18	513	514	509	510	503	505	503	492	491	481	478	474	—
18	505	497	494	492	492	491	488	481	479	470	468	461	—
20	482	478	478	482	482	479	481	482	481	473	478	486	—
21	499	496	492	493	495	499	497	484	478	474	465	462	—
22	487	486	483	483	486	486	476	465	470	455	456	446	—
23	487	486	483	483	482	487	496	490	485	471	458	452	—
24	478	475	474	472	471	469	472	464	455	442	430	427	—
25	462	461	464	463	467	468	468	467	464	455	451	442	—
26	469	464	459	460	463	465	473	473	462	456	451	446	—
27	481	477	469	469	470	470	472	487	494	489	490	486	—
28	462	474	474	478	476	478	485	491	487	483	475	469	—
29	487	490	503	496	490	490	489	483	473	467	465	466	—
30	492	488	486	486	483	483	487	483	478	472	462	459	—
Hourly Means.	495.8	494.8	493.4	493.1	493.0	493.8	495.2	492.1	486.1	477.7	471.5	468.6	—

NOVEMBER.	Mean Batavia Time. 1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	482	509	533	534	542	538	550	535	563	544	572	555	515.6
2	515	520	527	527	530	526	520	528	529	518	529	526	523.9
3	497	512	514	508	506	509	515	510	521	518	515	508	511.5
4	497	501	512	524	526	524	522	520	521	527	526	517	511.2
5	500	505	513	519	528	531	539	536	535	533	531	523	514.2
6	507	510	515	519	524	527	530	534	529	528	526	524	520.1
7	481	494	510	518	514	514	515	517	516	515	512	510	506.3
8	482	491	492	495	495	496	497	498	500	500	500	497	495.4
9	450	463	472	477	486	491	492	496	499	499	500	500	484.9
10	481	491	504	509	508	508	508	510	510	510	509	508	492.3
11	474	487	497	501	502	501	505	506	502	505	508	499	498.8
12	487	491	496	503	502	500	500	499	499	500	500	499	496.5
13	473	482	494	500	499	497	497	497	496	496	496	496	491.4
14	471	482	487	495	496	496	494	492	491	490	490	490	485.6
15	471	476	477	479	487	491	492	492	491	495	496	486	482.4
16	472	484	487	493	496	501	500	496	500	501	501	499	489.1
17	470	479	491	509	514	514	509	525	530	528	525	510	498.3
18	479	486	500	505	509	505	504	500	506	508	497	505	499.0
19	462	467	469	476	484	491	491	492	488	491	490	486	483.5
20	490	496	500	505	507	508	508	506	505	505	501	499	491.3
21	464	470	482	483	483	491	494	496	496	494	491	487	486.0
22	453	469	488	496	497	497	501	492	492	492	492	490	480.8
23	452	458	467	468	480	481	479	478	481	482	481	483	477.1
24	435	450	460	469	470	467	467	465	465	465	467	464	461.4
25	441	442	451	456	460	467	468	472	471	464	474	474	461.3
26	449	456	467	471	478	487	496	497	496	491	494	478	470.9
27	489	488	487	487	487	488	488	482	492	490	492	491	484.0
28	471	467	468	474	478	480	478	479	488	495	503	510	480.1
29	469	473	476	479	487	491	489	495	490	496	499	492	484.8
30	463	481	490	495	500	505	492	494	491	490	485	489	484.8
Hourly Means.	474.2	482.7	490.9	495.8	499.2	500.7	501.3	501.3	503.1	502.3	503.4	499.8	492.1

EASTERLY DECLINATION. A.

HOURLY OBSERVATIONS. — 1°30'.0 + THE NUMBERS IN THE TABLE.

DECEMBER. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	12.9	12.9	13.0	13.5	13.0	13.8	13.6	13.4	13.7	13.4	13.0	13.8	—
2	13.0	13.2	13.1	12.9	13.0	13.2	13.2	13.2	12.8	12.8	13.0	13.8	—
3	14.0	13.4	13.1	12.9	13.0	12.9	13.1	13.6	13.5	13.2	13.2	13.8	—
4	12.8	12.8	12.9	12.9	13.1	13.6	13.0	12.9	12.9	12.9	13.0	14.0	—
5	13.0	13.0	13.0	13.0	13.0	13.1	12.9	12.7	12.3	12.6	13.0	13.6	—
6	13.4	13.1	13.1	13.0	12.9	12.2	11.4	11.1	11.3	11.9	13.0	14.6	—
7	12.8	12.8	13.0	12.8	12.8	12.7	12.4	11.8	11.8	12.4	12.6	13.0	—
8	13.0	13.0	13.7	13.5	13.0	12.4	11.4	12.0	12.9	12.9	13.7	15.0	—
9	13.0	12.9	12.9	12.7	12.7	12.0	10.7	9.9	9.5	9.5	10.5	11.5	—
10	13.4	13.1	13.4	13.5	13.2	13.1	12.4	11.8	11.5	11.4	11.6	12.8	—
11	13.2	13.4	13.4	13.2	13.2	13.1	12.7	11.8	11.6	11.5	11.0	11.5	—
12	13.0	13.4	13.1	12.9	12.9	12.2	12.1	12.3	12.0	12.6	13.4	14.0	—
13	13.0	13.0	12.9	12.9	12.9	12.4	12.6	12.4	12.8	12.9	12.7	12.8	—
14	12.6	12.2	12.0	11.5	12.0	11.6	11.1	11.3	11.5	11.8	12.3	13.9	—
15	12.8	12.9	12.9	12.8	12.8	12.6	12.2	11.6	11.5	11.6	11.8	12.9	—
16	12.8	12.8	12.7	12.6	12.4	12.4	12.6	13.4	13.6	13.5	13.4	12.9	—
17	13.0	12.9	12.9	12.8	12.4	11.1	11.1	11.6	12.4	12.3	12.8	13.8	—
18	12.9	13.0	12.9	12.8	12.7	12.6	12.1	12.7	12.9	13.4	13.9	14.0	—
19	12.9	12.8	12.7	12.6	12.4	12.4	11.6	11.6	11.5	12.4	11.9	13.0	—
20	12.7	12.7	12.7	13.0	12.7	12.8	11.8	12.7	12.0	12.2	13.4	13.1	—
21	12.9	12.9	12.9	12.8	12.9	12.6	12.3	12.0	13.4	13.6	13.9	14.5	—
22	13.0	12.9	13.0	13.0	12.9	12.4	12.4	12.1	11.6	11.6	12.3	13.1	—
23	12.8	13.0	13.5	13.1	13.0	11.9	11.0	10.4	10.5	10.7	12.3	12.8	—
24	12.8	12.8	13.0	12.7	12.7	11.9	10.4	9.1	9.4	10.6	12.9	12.8	—
25	12.8	12.8	12.9	12.7	12.7	11.5	10.7	10.9	10.6	11.5	13.4	14.7	—
26	13.0	12.9	13.0	12.8	12.8	11.9	10.6	10.4	9.6	10.2	12.3	14.7	—
27	12.9	12.8	12.6	12.6	12.3	12.2	10.7	10.4	10.5	10.2	11.5	12.9	—
28	12.8	12.8	12.6	11.9	12.6	12.3	11.6	11.0	9.7	9.4	10.3	11.8	—
29	13.0	13.0	12.9	12.9	12.7	12.6	12.9	12.8	12.4	11.9	11.9	12.2	—
30	12.7	12.6	12.8	12.9	13.0	13.0	12.7	12.3	11.6	11.3	11.9	13.0	—
31	12.9	12.8	12.8	12.9	12.8	11.9	11.4	11.2	11.1	11.3	11.9	13.5	—
Hourly Means.	12.96	12.92	12.95	12.84	12.79	12.46	11.96	11.82	11.75	11.92	12.51	13.35	—

DECEMBER. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	14.8	15.5	16.0	15.3	14.8	14.5	14.2	13.5	13.9	13.7	13.4	13.5	13.88
2	14.6	14.8	15.3	15.1	14.8	15.1	14.7	14.2	14.0	13.5	14.0	13.5	13.78
3	14.4	14.2	14.0	14.0	14.2	14.2	14.2	13.9	13.6	13.4	13.5	13.0	13.60
4	14.7	14.6	14.7	14.0	13.9	13.7	13.9	13.8	13.8	13.6	13.4	12.9	13.49
5	14.2	14.5	14.3	13.5	13.7	14.0	14.0	13.9	13.9	13.5	13.0	13.2	13.37
6	15.6	16.0	16.1	14.8	14.5	14.2	14.0	14.5	13.9	13.2	13.0	12.8	13.48
7	13.9	14.8	15.0	14.2	14.0	14.0	13.9	13.8	13.9	13.8	13.6	12.9	13.28
8	16.1	15.5	15.4	14.6	14.0	13.8	14.0	13.7	13.6	13.5	13.6	13.0	13.64
9	12.9	13.9	14.2	14.0	14.0	13.9	13.9	13.9	13.9	13.9	13.8	13.7	12.66
10	14.0	15.3	15.4	15.3	15.2	14.3	14.2	13.8	13.8	13.7	13.7	13.6	13.48
11	13.1	14.4	14.6	14.3	13.9	13.6	13.6	13.7	13.8	13.8	13.8	13.4	13.15
12	14.7	15.1	14.7	13.9	13.6	13.9	13.8	13.8	13.8	13.7	13.6	13.2	13.40
13	13.7	14.3	14.7	14.5	14.4	13.9	13.9	14.0	13.8	13.5	13.0	12.8	13.33
14	15.8	16.3	16.1	15.0	14.3	13.8	13.7	13.6	13.6	13.5	13.1	12.7	13.14
15	13.9	14.0	13.9	13.8	14.0	14.0	13.9	13.7	13.4	13.2	12.9	12.8	13.00
16	12.8	12.9	13.5	13.9	14.2	14.3	14.3	14.0	13.8	13.8	13.4	13.0	13.29
17	14.0	14.0	14.4	15.2	15.1	14.3	13.9	13.8	13.8	13.6	13.5	13.0	13.24
18	14.6	15.1	15.3	15.1	14.7	13.8	13.8	13.8	13.8	13.6	13.4	13.1	13.58
19	13.8	14.8	15.1	14.8	15.0	14.2	13.8	13.8	13.7	13.5	13.1	12.7	13.17
20	13.9	12.9	13.0	13.8	13.9	13.8	13.7	13.4	13.6	13.5	13.5	12.9	13.07
21	14.2	13.8	13.4	13.9	14.0	13.9	13.9	13.6	13.5	13.2	13.1	13.1	13.35
22	13.6	13.7	14.2	14.2	13.9	13.9	13.8	13.1	13.0	12.7	12.7	12.6	12.99
23	13.9	13.9	13.8	13.8	13.4	13.1	13.4	13.5	13.5	13.0	13.0	12.9	12.76
24	14.0	14.2	14.5	14.0	13.5	13.2	13.5	13.5	12.7	12.8	12.9	12.9	12.62
25	15.2	14.8	14.7	14.0	13.9	13.5	13.6	13.1	13.1	13.0	12.9	12.9	13.00
26	15.3	15.1	14.8	14.2	13.9	13.5	13.6	13.5	13.0	13.4	13.0	12.9	12.93
27	15.0	16.2	15.3	15.2	14.2	13.8	13.9	13.8	13.0	12.8	12.8	12.9	12.94
28	13.0	13.2	14.0	14.0	14.0	13.9	13.8	13.8	13.7	12.9	12.6	13.0	12.53
29	12.6	14.0	14.6	14.0	14.0	13.0	13.6	13.5	13.4	13.0	13.0	12.8	13.03
30	14.0	14.2	14.3	13.9	13.6	13.0	13.8	13.8	13.9	13.4	13.6	13.0	13.40
31	13.9	14.5	14.6	14.0	13.9	13.6	13.7	13.7	13.5	13.2	13.0	12.9	12.96
Hourly Means.	14.20	14.53	14.64	14.33	14.15	13.86	13.87	13.73	13.60	13.38	13.25	13.02	13.20

HORIZONTAL FORCE. A.

HOURLY OBSERVATIONS. — 0.36800 + THE NUMBERS IN THE TABLE.

DECEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	267	273	269	274	274	274	274	278	283	292	299	300	—
2	271	273	269	273	270	273	274	276	280	283	287	287	—
3	269	273	280	280	278	283	289	293	302	303	308	301	—
4	285	277	279	280	283	284	289	296	303	303	305	302	—
5	278	279	280	282	284	285	287	288	293	297	297	294	—
6	278	280	279	280	286	290	302	306	314	319	313	307	—
7	278	292	278	276	275	287	287	288	284	283	284	278	—
8	259	274	269	276	274	278	284	283	297	303	302	292	—
9	277	279	279	283	278	288	293	301	304	306	309	307	—
10	284	289	280	281	281	287	287	288	295	307	312	312	—
11	282	283	278	280	280	282	291	299	302	302	309	309	—
12	288	289	289	294	294	298	304	311	315	320	326	322	—
13	293	294	293	291	293	290	293	299	303	312	319	320	—
14	288	292	295	298	301	306	314	320	330	331	327	317	—
15	278	282	280	282	283	287	290	292	293	302	306	306	—
16	282	283	283	284	287	286	290	293	298	306	312	318	—
17	290	289	289	293	287	288	297	293	299	306	309	300	—
18	283	287	287	285	286	289	289	296	301	304	308	310	—
19	293	297	298	299	298	294	295	292	306	311	315	307	—
20	296	296	296	299	298	302	306	296	314	321	323	312	—
21	288	291	297	294	299	293	299	298	299	309	312	314	—
22	283	293	296	292	290	293	297	306	311	308	307	306	—
23	275	278	278	294	293	295	296	301	311	320	307	297	—
24	278	283	286	287	288	290	292	297	298	302	309	313	—
25	280	287	284	284	287	290	288	296	316	322	324	316	—
26	281	284	288	288	290	293	297	299	309	320	318	315	—
27	291	288	293	292	298	294	306	311	327	340	335	313	—
28	279	287	292	317	289	297	304	309	316	329	323	315	—
29	264	268	273	274	277	282	284	297	307	316	321	310	—
30	272	275	271	271	273	277	283	291	299	303	301	301	—
31	260	264	264	265	269	270	274	278	293	307	312	312	—
Hourly Means.	279.7	283.2	283.0	285.4	285.3	287.9	292.1	295.8	303.3	309.3	310.9	306.9	—

DECEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means.
1	297	288	264	256	260	258	258	268	262	260	264	267	273.3
2	283	282	273	271	268	264	264	282	264	268	264	267	273.6
3	287	280	273	274	274	278	271	273	275	279	271	280	282.3
4	297	290	283	283	279	278	277	277	274	273	273	274	285.2
5	287	282	280	278	276	278	278	277	277	277	284	281	283.3
6	282	291	283	289	296	294	298	293	293	276	294	267	292.1
7	265	265	264	264	271	273	274	276	274	279	269	272	276.5
8	290	290	285	283	283	274	274	274	273	274	274	278	281.0
9	303	298	293	284	284	287	285	282	282	282	279	281	289.3
10	304	302	296	289	285	275	278	284	283	282	283	282	289.4
11	307	302	294	290	287	285	285	284	287	288	287	292	291.0
12	312	303	296	288	290	292	294	296	294	293	293	294	299.8
13	316	306	295	284	287	283	274	269	267	268	271	282	291.8
14	307	293	284	279	283	283	284	284	273	270	271	274	296.0
15	293	286	275	274	276	275	275	283	278	280	280	283	285.0
16	307	315	305	303	295	298	297	294	298	293	287	289	296.0
17	294	287	277	275	274	269	269	274	272	274	275	279	285.8
18	307	299	288	287	287	289	291	290	286	289	290	293	292.5
19	308	306	302	294	297	297	293	292	299	291	283	292	298.3
20	304	291	290	288	296	294	299	283	277	283	284	290	297.4
21	309	300	297	292	288	289	285	286	287	282	283	283	294.8
22	303	297	287	284	284	283	273	276	274	275	272	277	290.3
23	280	279	279	273	273	274	278	283	283	281	282	281	287.1
24	306	303	292	280	283	283	280	280	287	283	275	280	289.8
25	306	300	294	288	293	288	287	292	282	283	283	287	294.0
26	309	298	290	284	283	280	278	278	289	279	282	285	292.4
27	275	250	241	243	240	250	249	247	265	274	283	274	282.5
28	312	303	289	282	276	279	278	274	275	277	279	261	293.4
29	301	288	282	270	260	261	268	268	269	269	269	268	284.1
30	296	285	273	269	269	268	265	261	255	255	254	260	276.0
31	306	287	273	272	273	274	270	269	264	260	265	271	277.2
Hourly Means.	298.5	291.8	283.8	279.7	279.7	279.1	278.4	279.0	278.0	277.3	277.4	278.8	287.7

VERTICAL FORCE. A.

HOURLY OBSERVATIONS — 0.19700 + THE NUMBERS IN THE TABLE.

Mean Batavia Time.		1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
DECEMBER.	1	489	485	488	483	483	483	488	497	488	475	465	463	—
	2	497	495	498	497	497	492	494	495	492	489	486	478	—
	3	494	492	487	487	488	489	484	474	473	474	464	462	—
	4	479	486	482	480	480	480	484	484	473	465	456	449	—
	5	486	485	484	484	483	483	486	484	479	469	461	464	—
	6	491	488	488	488	484	486	483	469	459	451	448	443	—
	7	493	483	488	489	489	485	488	511	512	507	498	488	—
	8	519	507	510	505	507	509	510	510	497	489	487	482	—
	9	497	495	493	492	493	493	499	505	501	494	489	490	—
	10	500	493	498	497	497	493	498	498	489	472	455	448	—
	11	497	497	497	496	493	493	496	493	497	493	482	473	—
	12	491	489	488	487	484	488	483	461	460	455	457	455	—
	13	478	477	477	478	475	478	469	459	457	457	456	454	—
	14	470	469	469	468	465	466	465	461	447	451	439	430	—
	15	469	465	465	465	464	464	468	466	462	455	451	447	—
	16	477	477	476	475	474	473	471	480	477	474	474	469	—
	17	488	488	488	487	489	492	471	466	461	457	448	452	—
	18	483	482	483	483	483	482	483	484	483	480	474	477	—
	19	487	485	485	486	484	489	491	499	488	475	479	468	—
	20	490	490	488	486	486	484	482	479	470	460	462	468	—
	21	481	481	477	478	476	482	475	470	469	466	462	457	—
	22	487	478	477	480	482	484	482	457	451	447	437	434	—
	23	477	473	471	461	465	471	475	460	447	433	436	439	—
	24	464	461	458	459	457	464	473	480	462	436	432	425	—
	25	472	466	466	466	464	469	459	443	424	406	382	393	—
	26	472	468	463	463	462	467	467	453	431	413	398	395	—
	27	471	472	469	469	461	465	468	479	474	464	448	448	—
	28	481	479	476	462	478	474	474	480	473	462	461	454	—
	29	497	492	488	483	484	482	476	472	473	470	472	472	—
	30	497	495	497	493	491	487	487	489	487	475	473	464	—
	31	511	508	507	506	502	506	500	483	478	457	448	448	—
Hourly Means.		486.6	483.9	483.3	481.7	481.3	482.4	481.6	478.7	472.1	463.6	457.4	454.5	—

Mean Batavia Time.		1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily and Monthly Means
DECEMBER.	1	468	479	501	507	509	510	508	503	506	506	502	500	491.1
	2	479	481	490	497	505	505	504	492	502	500	502	497	494.3
	3	468	477	487	484	484	483	489	491	487	486	488	484	482.3
	4	457	470	475	482	491	493	492	492	493	493	492	490	479.9
	5	477	479	483	495	493	491	493	493	494	493	487	488	483.9
	6	460	460	478	478	480	484	483	487	488	502	487	501	477.8
	7	488	487	498	502	504	505	506	506	510	509	515	512	498.9
	8	478	486	492	497	501	505	504	502	502	501	501	498	500.0
	9	484	477	482	492	497	497	498	501	502	502	504	501	494.9
	10	434	449	466	482	497	502	501	498	500	500	500	500	486.1
	11	469	474	477	482	488	492	492	492	492	492	493	490	489.2
	12	458	470	483	489	487	479	478	478	479	482	482	477	476.7
	13	447	448	458	472	475	477	483	485	487	486	483	476	470.5
	14	436	456	468	475	472	470	468	470	475	477	475	473	463.1
	15	459	466	475	478	477	478	478	475	480	479	479	477	468.4
	16	475	475	483	484	489	487	488	488	487	491	492	489	480.2
	17	463	471	470	470	484	493	495	492	492	490	488	485	478.3
	18	484	487	488	487	488	488	488	489	492	491	488	487	484.8
	19	469	464	474	479	485	488	493	496	491	495	502	497	485.4
	20	466	471	470	474	477	484	482	492	493	489	487	481	479.6
	21	461	468	472	475	483	486	491	492	492	493	491	488	477.8
	22	437	445	457	462	470	475	482	481	483	482	483	478	468.0
	23	446	441	443	453	458	459	459	459	462	466	465	462	457.5
	24	425	429	445	461	471	474	474	475	474	475	479	474	459.5
	25	423	439	452	459	457	466	468	466	474	474	472	470	451.3
	26	415	443	468	473	479	479	477	477	474	479	477	475	457.0
	27	465	492	501	506	506	498	495	493	486	480	475	477	477.6
	28	460	475	488	494	497	493	495	497	497	497	494	502	481.0
	29	483	472	479	493	504	506	500	500	497	499	498	498	487.1
	30	466	475	490	507	517	521	516	516	520	520	518	514	496.5
	31	465	484	493	511	516	513	511	510	511	511	507	502	495.3
Hourly Means.		460.2	467.4	477.0	483.9	488.4	489.7	490.0	489.9	491.0	491.6	490.5	488.5	479.8

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1. C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY. 1	— 6	— 6	— 3	— 3	— 5	— 4	2	4	9	8	12	12	—
2	— 2	— 2	— 7	— 9	— 5	— 9	— 6	— 2	5	16	8	10	—
3	— 2	— 1	— 2	— 1	0	— 5	— 7	— 7	— 2	11	22	23	—
4	1	1	1	0	0	— 2	— 11	— 11	— 3	6	16	17	—
5	1	2	2	2	3	— 2	— 8	— 5	— 6	— 4	3	10	—
6	— 1	0	— 1	— 2	0	— 1	1	— 3	— 2	— 1	— 1	7	—
7	1	3	3	3	4	3	— 1	— 2	— 8	— 9	— 14	— 5	—
8	2	0	10	— 1	4	9	14	— 3	— 10	— 18	— 18	— 10	—
9	5	6	5	6	5	10	14	1	— 5	— 18	— 21	— 16	—
10	— 7	— 7	— 7	— 6	— 3	6	16	19	8	4	— 5	— 7	—
11	— 5	— 2	— 2	1	1	1	6	8	7	— 2	— 14	— 23	—
12	— 6	— 6	— 7	— 9	— 10	— 8	10	17	22	11	10	— 2	—
13	— 4	— 3	— 4	— 5	— 4	— 4	— 2	4	3	5	3	— 1	—
14	1	0	— 3	— 2	— 6	— 7	— 2	8	6	3	— 1	— 5	—
15	— 2	0	— 1	1	0	— 3	— 6	— 4	2	8	8	— 2	—
16	— 2	— 3	— 3	— 2	— 4	— 8	— 6	5	9	10	4	0	—
17	— 1	— 1	— 1	0	2	— 5	0	8	6	2	— 2	— 7	—
18	0	— 2	— 3	— 2	— 1	— 5	— 10	— 7	7	12	14	10	—
19	3	— 2	2	1	1	— 8	— 12	— 9	1	10	10	9	—
20	5	5	4	4	2	1	— 7	— 5	— 5	— 3	1	— 2	—
21	1	3	7	9	4	7	— 10	— 10	— 2	— 6	— 7	— 4	—
22	3	4	5	5	4	11	1	— 8	— 14	— 8	4	10	—
23	5	6	5	3	8	7	— 1	— 6	— 10	— 12	— 7	— 6	—
24	3	5	5	6	8	7	1	— 6	— 12	— 13	— 9	— 8	—
25	5	5	4	4	1	5	5	— 1	— 8	— 14	— 7	3	—
26	4	2	0	3	2	6	11	2	— 5	— 19	— 12	— 5	
27	— 4	— 4	— 4	— 4	— 3	0	5	9	7	2	— 5	— 2	—
28	2	1	0	1	2	3	3	0	0	0	— 5	— 16	—
29	0	— 3	— 2	— 1	— 2	0	1	0	0	1	— 2	— 1	—
30	— 3	— 2	— 1	— 2	— 2	— 6	— 2	0	7	12	9	4	—
31	3	0	0	— 2	— 3	— 6	— 5	— 6	— 9	5	8	9	—
Hourly Amount.	90	87	104	100	99	159	186	180	200	253	262	246	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JANUARY. 1	6	1	— 2	— 1	— 1	0	— 2	0	1	0	0	— 1	89
2	6	2	— 5	— 10	— 8	— 3	1	— 1	— 1	1	2	3	124
3	13	— 1	— 10	— 11	— 10	— 6	— 3	— 1	— 1	1	1	0	141
4	11	1	— 5	— 6	— 7	— 5	— 5	— 4	— 2	— 1	— 1	2	119
5	13	7	— 2	— 3	— 3	— 1	— 1	— 3	— 3	— 2	— 2	— 2	90
6	12	8	10	6	— 2	— 4	— 4	— 4	— 1	— 2	0	1	74
7	1	2	0	7	7	— 1	— 2	— 1	0	1	— 1	— 1	80
8	4	4	2	— 1	— 1	— 2	0	— 2	— 1	1	3	3	123
9	— 8	— 3	2	6	6	3	1	1	— 1	— 4	— 2	— 5	154
10	1	9	8	10	8	1	3	0	— 5	— 5	— 6	— 5	156
11	— 17	— 10	— 2	5	16	8	1	0	0	— 1	— 4	— 4	140
12	— 8	— 8	— 6	0	6	6	0	1	2	1	5	— 1	162
13	— 4	— 13	— 13	— 9	3	10	6	7	4	— 1	1	2	115
14	— 2	4	9	4	0	1	1	0	1	0	0	— 1	67
15	— 7	— 8	— 3	— 3	— 1	2	5	5	3	5	2	— 1	82
16	2	9	7	5	1	— 1	— 3	— 4	— 2	— 2	— 3	— 3	98
17	9	— 7	— 1	2	6	4	4	2	4	0	— 1	0	75
18	5	0	2	— 8	— 7	— 3	— 1	0	1	1	0	1	102
19	6	5	0	— 6	— 7	— 3	— 1	— 3	— 1	— 2	— 1	3	106
20	7	9	9	2	— 6	— 4	0	— 1	— 7	0	— 2	— 10	101
21	— 1	3	— 1	— 2	— 4	1	1	— 1	1	— 5	— 3	0	93
22	8	10	1	— 10	— 10	— 3	— 2	— 1	0	0	— 2	6	130
23	— 5	— 2	5	11	5	0	— 4	— 4	— 3	— 3	0	3	121
24	— 6	3	2	4	1	0	— 1	0	1	3	5	5	114
25	6	1	— 3	0	— 1	— 3	— 2	— 1	0	1	2	0	82
26	2	4	3	0	— 5	— 1	1	1	0	0	— 1	— 3	92
27	— 4	— 1	4	6	3	— 3	— 1	1	2	3	— 1	0	78
28	— 20	— 13	— 3	8	6	6	5	4	4	6	6	2	116
29	— 4	— 5	3	5	0	1	3	2	2	1	0	— 1	40
30	— 6	— 12	— 15	— 13	— 1	3	4	5	6	7	3	3	128
31	3	7	6	2	0	— 3	— 3	— 2	— 5	— 1	4	3	95
Hourly Amount.	207	172	144	166	142	92	71	62	65	61	64	75	3287

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JANUARY. 1	— 7	— 7	— 6	— 3	— 1	— 2	— 1	2	— 1	— 8	— 10	— 9	—
2	5	5	17	17	— 1	4	4	5	6	— 10	— 6	— 8	—
3	9	3	5	— 1	2	2	— 2	— 2	— 3	2	6	7	—
4	1	1	— 1	0	1	— 1	3	— 1	6	9	11	4	—
5	1	— 1	0	— 2	0	0	— 2	— 6	— 4	7	9	9	—
6	0	— 1	— 3	— 1	— 1	— 3	— 6	— 8	— 7	— 2	2	4	—
7	2	— 2	— 2	— 3	— 3	0	7	3	0	— 3	— 4	— 3	—
8	— 3	— 5	— 4	5	2	3	— 4	2	0	2	— 7	— 1	—
9	5	4	4	2	3	4	— 7	— 5	— 13	— 1	7	10	—
10	— 3	1	— 2	— 4	— 4	— 9	— 12	— 12	— 16	— 20	— 12	3	—
11	— 3	— 6	9	3	4	— 2	— 1	— 6	— 8	— 6	— 2	— 3	—
12	— 3	1	— 4	0	1	6	5	1	— 7	— 8	— 7	0	—
13	5	7	8	1	— 3	5	5	— 2	0	— 2	— 1	1	—
14	0	0	— 2	0	1	— 2	3	5	4	4	— 4	— 4	—
15	0	2	1	0	0	— 1	— 2	1	3	3	6	3	—
16	0	— 2	— 2	— 4	1	0	4	3	3	2	0	— 2	—
17	— 2	0	— 1	— 1	1	2	6	5	5	0	— 5	— 3	—
18	— 2	— 5	— 8	— 6	— 5	— 3	4	11	5	3	— 3	— 5	—
19	— 2	3	— 4	— 3	— 1	0	— 2	— 1	7	4	— 3	— 4	—
20	— 2	— 2	— 7	— 7	— 4	— 6	4	13	12	9	— 2	8	—
21	1	— 9	9	3	3	0	4	— 1	7	1	— 15	— 21	—
22	1	3	0	— 1	3	5	1	— 5	6	7	8	— 1	—
23	0	— 1	— 1	3	3	1	3	5	10	10	8	1	—
24	5	— 4	6	— 6	— 7	— 4	— 4	— 4	3	11	9	0	—
25	6	4	1	0	0	— 2	— 7	— 6	— 3	— 3	— 3	3	—
26	3	4	3	0	0	5	1	— 3	— 10	— 5	10	9	—
27	2	3	— 2	0	2	1	— 4	— 4	— 9	— 8	— 7	— 4	—
28	1	3	1	1	4	2	6	9	7	— 5	— 5	— 1	—
29	— 4	1	0	— 1	3	4	— 5	— 6	— 5	— 5	— 5	— 2	—
30	— 2	0	— 4	— 4	— 2	— 3	2	4	3	5	5	— 5	—
31	— 3	2	— 8	9	— 1	— 2	— 2	1	— 2	1	8	3	—
Hourly Amount.	83	92	125	91	67	84	123	142	175	166	190	141	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JANUARY. 1	0	5	4	— 2	1	— 2	— 2	2	0	0	3	5	83
2	— 11	— 19	— 16	— 15	— 11	— 10	— 5	2	7	9	6	— 2	201
3	4	1	— 2	— 2	— 2	4	1	1	0	— 2	— 3	— 4	70
4	— 8	— 12	— 14	— 11	— 6	2	5	6	3	5	1	1	113
5	3	— 3	— 7	— 5	— 1	0	0	5	5	2	1	2	75
6	5	3	— 4	— 5	3	7	7	8	— 1	— 2	— 5	— 5	93
7	4	9	6	3	— 14	— 12	4	10	13	10	6	4	127
8	— 5	— 12	— 11	— 11	— 7	— 3	— 2	— 2	0	3	6	5	105
9	12	7	6	4	6	5	— 3	— 1	0	3	4	— 2	118
10	9	15	24	19	22	11	— 15	— 21	— 4	6	— 3	3	250
11	6	11	10	10	3	— 2	— 1	1	4	— 5	1	— 9	116
12	4	5	0	8	— 11	— 12	— 6	0	1	0	4	4	98
13	0	1	4	— 3	— 4	— 2	— 4	— 2	1	3	— 9	0	73
14	1	2	0	— 2	— 2	— 1	— 1	1	1	5	0	0	45
15	— 1	— 4	— 8	— 5	1	3	3	2	3	— 9	— 7	3	71
16	— 1	3	2	0	2	2	— 1	— 1	— 2	— 2	— 2	— 4	45
17	— 4	— 1	4	— 3	— 1	1	3	5	4	3	1	— 4	65
18	— 2	— 1	3	— 1	— 2	2	3	5	2	0	1	1	83
19	— 3	6	5	— 3	— 2	5	5	6	4	— 1	— 1	— 5	80
20	— 2	— 8	6	9	12	17	17	— 18	— 24	— 20	1	11	221
21	— 10	— 9	— 14	0	— 1	— 1	4	1	— 1	12	— 4	9	140
22	— 7	— 6	— 1	— 2	— 2	— 8	4	1	1	— 5	— 2	— 5	85
23	— 11	— 13	— 14	— 3	4	3	1	4	2	5	6	5	117
24	— 10	— 10	— 7	— 1	1	— 3	— 2	1	— 1	1	5	6	111
25	5	6	3	3	1	0	— 3	0	— 3	— 2	— 2	2	68
26	4	0	— 2	— 1	0	3	— 2	0	— 3	— 6	— 4	— 2	80
27	5	13	15	11	5	2	— 4	— 8	— 9	— 7	— 4	— 5	134
28	4	7	8	1	— 6	— 4	— 7	— 3	— 3	0	5	— 1	94
29	7	10	11	5	7	3	5	0	— 2	— 8	— 9	— 9	117
30	— 4	— 4	2	9	7	3	1	7	3	— 2	1	— 2	84
31	— 2	— 6	— 4	— 2	— 5	— 5	— 5	— 1	1	1	2	1	77
Hourly Amount	154	212	217	159	152	138	126	125	108	139	109	121	3239

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0,00001 C. G. S.

JANUARY. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	9	5	6	4	4	5	2	— 2	1	— 2	0	3	—
2	2	— 1	— 6	— 6	5	7	2	— 7	— 7	1	4	3	—
3	— 7	— 4	— 4	— 3	— 4	— 1	— 3	3	— 7	— 31	— 12	— 2	—
4	— 1	— 3	— 1	1	1	6	9	6	— 15	— 12	— 10	— 4	—
5	1	1	1	1	— 2	2	4	— 8	— 6	— 14	— 7	— 1	—
6	— 1	— 1	4	1	1	2	10	9	11	6	0	— 10	—
7	1	3	4	5	4	0	2	1	6	9	3	— 10	—
8	2	2	— 1	— 7	— 6	— 9	2	4	— 1	— 3	6	4	—
9	— 6	— 3	— 2	— 1	— 1	— 7	3	16	23	17	1	— 10	—
10	4	1	3	3	0	— 6	— 3	3	10	18	3	— 10	—
11	2	4	— 5	— 2	— 1	2	— 1	6	16	20	15	3	—
12	8	2	2	— 1	— 3	— 10	— 19	— 23	— 8	2	8	13	—
13	— 4	— 5	— 5	— 1	2	— 3	— 7	— 2	— 8	— 2	1	5	—
14	— 1	— 1	3	1	2	5	2	— 5	3	11	11	7	—
15	1	0	— 1	— 1	0	4	2	2	— 8	— 8	— 7	0	—
16	5	5	8	8	6	10	1	— 2	5	9	13	4	—
17	2	0	1	0	— 1	2	— 7	— 8	— 5	7	8	8	—
18	— 1	— 1	— 3	— 4	— 6	— 3	— 6	0	— 13	— 6	— 1	9	—
19	0	— 3	0	1	0	5	— 2	— 12	— 19	— 15	0	9	—
20	— 2	— 2	0	1	— 1	— 4	— 5	— 13	— 16	— 13	— 5	1	—
21	— 6	6	— 7	— 8	— 4	4	— 2	— 14	— 12	— 6	8	13	—
22	— 3	— 2	— 6	— 4	— 6	— 8	— 2	7	— 1	— 10	— 10	— 1	—
23	— 3	— 1	2	0	1	3	6	0	— 1	— 4	— 10	— 8	—
24	— 4	2	— 3	3	1	— 2	3	11	3	— 5	— 12	— 4	—
25	— 2	— 1	2	4	4	2	9	14	14	8	— 7	— 13	—
26	1	4	4	6	8	2	12	14	27	18	— 14	— 18	—
27	— 6	— 8	— 6	— 6	— 8	— 13	— 12	5	17	18	17	7	—
28	0	— 1	2	2	1	0	3	— 6	— 1	9	6	5	—
29	2	— 1	1	— 1	— 2	— 3	2	6	3	0	8	— 2	—
30	— 3	— 6	— 5	— 4	— 4	— 5	— 8	— 5	— 1	— 1	— 2	12	—
31	3	3	10	0	6	8	2	— 1	— 4	— 11	— 11	— 6	—
Hourly Amount.	93	82	108	90	95	143	153	215	272	296	220	205	—

JANUARY. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 4	— 10	— 7	— 4	— 9	— 2	0	— 2	0	0	— 3	— 1	85
2	4	12	16	9	3	— 1	0	— 1	— 5	— 4	— 2	3	111
3	14	22	23	11	5	— 4	— 1	— 1	0	1	1	0	164
4	5	11	7	1	— 4	— 4	— 3	— 2	— 1	0	1	2	110
5	8	17	19	7	3	— 3	— 2	— 6	— 5	— 4	— 3	— 2	127
6	— 11	— 13	— 7	— 3	— 4	— 5	— 5	— 3	1	3	6	5	122
7	— 21	— 14	— 12	— 2	14	13	1	— 4	— 6	— 5	— 2	— 1	143
8	10	16	15	10	1	— 1	— 1	— 3	— 4	— 6	— 7	— 6	127
9	— 17	— 10	— 13	— 12	— 4	0	6	3	2	1	2	3	163
10	— 14	— 10	— 9	— 9	— 7	4	18	18	4	— 3	1	— 3	164
11	— 17	— 28	— 26	— 18	— 8	2	0	1	1	7	6	10	201
12	13	9	8	0	11	13	3	— 3	— 5	— 3	— 7	— 2	176
13	5	9	9	8	— 3	— 4	— 2	— 1	— 3	— 4	3	— 4	100
14	— 5	— 13	— 15	— 3	0	0	1	1	— 1	— 2	1	1	95
15	8	4	0	— 4	— 8	— 7	— 4	— 2	— 1	6	6	2	86
16	— 11	— 19	— 22	— 17	— 9	— 1	4	5	7	5	5	5	186
17	3	1	— 11	— 8	— 7	— 3	— 3	— 1	— 2	— 1	0	4	93
18	17	12	15	13	4	2	— 2	— 1	— 1	2	0	1	123
19	14	9	12	13	4	— 4	— 3	— 4	— 2	0	0	2	133
20	10	6	6	15	7	— 6	— 11	12	24	15	— 4	— 1	180
21	4	4	12	8	1	— 3	— 2	— 3	0	— 7	3	— 6	143
22	4	17	23	16	9	3	— 6	— 3	— 4	0	2	— 1	148
23	1	— 1	1	2	— 1	1	1	1	0	— 3	— 3	— 2	56
24	5	2	1	0	2	2	3	— 2	1	— 2	— 3	— 2	78
25	— 10	— 2	— 6	— 10	— 6	1	1	0	— 1	— 1	1	— 2	121
26	— 22	— 12	— 6	1	0	— 5	1	— 1	1	2	3	— 4	186
27	— 3	— 11	— 15	— 7	2	8	7	6	4	4	3	2	195
28	3	— 14	— 19	— 9	— 1	0	2	4	3	2	— 3	3	99
29	— 5	— 11	— 9	— 6	1	7	4	5	4	4	6	3	96
30	19	16	7	2	— 6	— 7	— 4	— 7	— 6	0	0	1	131
31	5	3	1	— 4	3	3	0	1	— 1	— 1	— 1	— 1	89
Hourly Means.	292	338	352	232	147	119	101	107	100	98	88	85	4031

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 1	— 2	— 2	1	— 4	— 6	— 16	— 15	— 8	8	16	10	—
2	5	2	0	0	— 1	— 2	— 5	— 6	— 4	0	0	2	—
3	3	3	2	1	1	2	4	8	3	— 11	— 14	— 8	—
4	2	— 1	5	— 2	2	2	4	2	— 3	— 9	— 7	1	—
5	2	3	0	1	2	2	4	2	4	— 6	— 12	— 8	—
6	0	1	1	1	1	3	5	— 3	— 4	— 6	— 8	— 2	—
7	— 2	— 1	— 1	— 1	— 2	— 6	— 4	— 1	6	5	0	1	—
8	0	— 1	0	0	— 3	— 6	— 1	3	7	3	— 2	— 6	—
9	3	— 1	— 1	— 2	0	— 2	— 4	— 2	— 1	5	1	— 4	—
10	1	0	0	0	— 1	— 3	— 6	— 2	2	1	— 5	— 4	—
11	5	2	1	— 2	3	7	1	— 2	— 3	— 5	1	— 1	—
12	— 2	0	— 3	— 2	— 3	— 2	— 2	0	1	4	2	— 4	—
13	— 3	— 4	— 3	— 2	— 3	— 1	2	5	2	— 2	3	10	—
14	— 1	0	2	2	2	1	0	— 2	— 5	— 4	— 1	— 1	—
15	— 3	— 3	— 4	— 2	5	— 1	— 7	— 3	— 3	3	10	15	—
16	2	1	2	3	6	3	— 3	— 1	— 4	— 9	— 6	— 1	—
17	— 1	— 1	0	4	8	3	0	0	— 3	1	8	10	—
18	0	0	1	1	1	— 1	1	0	— 5	— 2	2	— 1	—
19	— 2	— 2	0	— 5	— 2	— 1	— 1	4	5	— 1	1	— 2	—
20	3	2	3	6	6	8	16	7	0	— 8	— 19	— 26	—
21	4	4	5	8	5	6	8	8	1	— 3	— 6	— 15	—
22	4	2	2	2	1	3	2	— 2	— 1	— 1	— 4	— 7	—
23	— 1	— 1	0	0	— 1	1	— 2	— 6	— 1	2	4	1	—
24	— 2	— 1	— 2	— 2	— 2	— 1	2	2	2	— 1	— 2	— 1	—
25	— 3	— 3	— 4	— 4	— 5	— 2	3	2	7	5	5	13	—
26	— 3	— 2	— 2	0	— 1	0	4	3	— 1	0	3	— 2	—
27	— 3	— 5	— 5	— 5	— 7	— 8	— 1	— 1	5	15	10	14	—
28	— 2	— 2	— 3	— 1	— 1	0	— 9	— 5	— 6	7	13	16	—
Hourly Amount.	63	50	54	60	79	83	117	97	97	127	165	186	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	2	— 4	— 9	— 13	— 7	— 2	0	2	2	4	8	2	144
2	8	2	3	1	— 3	— 1	— 2	0	— 1	1	2	1	52
3	— 2	4	0	— 5	— 7	— 2	2	5	5	7	5	— 1	105
4	5	2	2	0	— 3	— 3	1	0	— 2	— 3	— 2	0	63
5	— 3	1	5	3	— 6	— 5	1	3	5	7	5	1	91
6	— 1	0	4	4	7	5	3	2	1	— 3	— 4	— 3	72
7	— 5	— 11	— 5	— 1	3	5	5	7	6	— 2	— 2	0	82
8	— 11	— 5	— 2	3	13	6	3	— 4	— 1	3	— 1	2	86
9	— 4	1	1	4	— 1	0	2	2	2	2	— 1	0	46
10	2	— 1	— 3	0	1	3	2	1	0	0	3	3	44
11	— 4	— 5	0	5	4	3	2	0	1	0	— 4	— 1	62
12	— 6	— 4	7	11	9	2	0	— 1	— 2	— 2	— 2	— 2	73
13	12	5	2	0	— 5	— 2	— 2	— 2	— 5	— 4	— 2	— 1	82
14	— 5	— 6	— 5	— 4	4	8	5	4	4	2	0	— 1	69
15	10	6	4	— 4	— 5	— 7	— 3	— 2	— 2	— 3	— 2	2	109
16	5	5	3	— 1	0	— 1	— 4	— 4	— 3	— 5	— 4	— 1	77
17	9	4	4	3	— 3	— 6	— 7	— 10	— 5	— 3	— 2	1	96
18	5	4	4	0	2	3	0	— 5	— 6	— 4	— 3	— 2	53
19	4	7	6	4	— 1	— 2	— 2	1	2	— 1	0	3	59
20	— 18	— 5	— 5	0	— 2	— 1	— 3	— 2	— 2	2	2	1	147
21	— 19	— 9	— 3	1	2	— 1	1	2	2	2	2	5	122
22	— 8	— 2	— 2	0	7	1	— 1	— 1	— 1	0	1	— 1	56
23	0	— 5	— 4	— 1	4	7	4	— 1	1	— 1	— 1	— 1	50
24	3	2	2	— 3	— 1	2	1	— 2	— 2	— 1	0	— 1	40
25	7	11	4	4	— 1	— 5	— 8	— 6	— 5	— 4	— 5	— 3	119
26	— 6	— 7	— 2	4	6	4	4	5	4	0	— 1	— 2	66
27	13	10	0	— 4	— 8	— 5	— 2	1	1	2	— 2	1	128
28	9	2	— 7	— 11	— 9	— 4	0	3	1	2	3	3	119
Hourly Amount.	186	130	98	94	124	96	70	78	74	70	69	45	2312

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 3	— 2	— 1	— 3	— 1	6	10	6	2	3	2	2	—
2	0	2	0	0	3	4	1	1	4	5	— 1	— 6	—
3	— 4	— 4	— 4	— 3	— 4	— 3	— 4	— 5	0	— 4	— 6	15	—
4	— 9	3	— 10	— 17	— 9	— 7	— 2	1	0	— 4	— 2	— 3	—
5	1	— 1	— 3	— 5	— 5	— 2	— 1	8	5	5	2	1	—
6	— 2	— 6	— 1	0	— 3	2	— 2	— 3	— 4	0	— 3	— 5	—
7	1	5	2	4	4	1	4	— 1	— 3	— 7	— 2	— 4	—
8	2	2	0	— 4	— 2	0	— 2	— 1	1	— 1	3	0	—
9	5	6	5	4	1	1	0	— 1	— 3	— 1	— 2	1	—
10	— 5	— 7	— 6	— 4	— 5	— 3	— 7	— 5	1	0	2	2	—
11	— 2	— 4	— 5	— 1	— 1	— 2	— 5	— 3	— 2	3	4	4	—
12	— 1	— 1	0	— 2	0	0	— 5	— 6	— 9	— 6	— 2	2	—
13	— 1	— 3	— 3	— 4	— 3	— 2	— 3	— 2	2	3	7	7	—
14	0	— 1	4	— 1	— 2	0	— 3	— 1	— 7	— 8	— 7	2	—
15	2	3	6	1	5	— 4	— 1	— 6	3	6	8	3	—
16	— 1	— 1	— 2	— 1	0	5	0	— 2	— 5	0	10	— 1	—
17	— 4	— 6	— 5	— 2	— 7	1	— 2	5	7	0	— 1	— 3	—
18	— 5	3	5	6	3	— 5	10	6	8	— 7	— 10	— 6	—
19	1	7	1	13	0	— 6	— 4	— 3	— 6	6	4	2	—
20	— 1	— 2	— 1	— 1	— 2	0	— 2	2	— 1	6	— 3	— 2	—
21	— 3	— 4	— 1	1	0	— 1	— 3	0	0	3	4	5	—
22	4	4	2	4	— 2	1	— 1	— 6	— 9	— 7	— 5	— 4	—
23	1	3	1	7	10	7	14	4	— 1	0	— 11	— 12	—
24	6	— 1	2	4	3	1	1	— 2	— 3	— 2	4	5	—
25	— 1	1	2	— 1	— 1	— 1	1	7	1	1	3	— 2	—
26	— 5	— 3	0	— 1	— 1	2	— 4	0	1	— 1	3	4	—
27	3	2	9	6	22	2	— 2	4	10	0	1	— 6	—
28	16	1	1	1	— 2	3	5	8	5	2	— 8	— 8	—
Hourly Amount.	89	88	82	101	101	72	99	99	103	91	120	117	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 7	— 8	— 1	— 1	— 2	1	0	1	2	2	0	7	73
2	— 8	— 6	— 4	— 5	— 4	— 1	2	1	2	— 1	— 2	— 5	68
3	10	3	17	14	10	10	9	3	7	2	4	2	147
4	— 5	— 5	— 4	— 7	— 3	— 1	1	2	0	3	5	5	108
5	— 1	— 3	1	6	5	0	— 2	0	1	3	3	1	65
6	6	14	8	4	— 2	— 2	— 4	— 3	— 5	1	1	0	81
7	4	3	— 5	1	5	— 1	1	1	1	— 2	5	9	76
8	5	1	4	1	— 25	— 14	— 16	— 4	4	— 2	3	1	98
9	4	7	3	3	5	1	3	4	4	— 2	— 2	— 1	69
10	1	2	2	3	5	4	4	— 1	1	0	— 2	— 1	73
11	4	1	2	0	3	5	5	3	4	1	6	0	70
12	2	5	— 1	— 1	4	4	1	— 1	— 2	— 3	— 4	— 8	70
13	2	4	1	— 3	3	4	3	6	6	6	3	— 1	82
14	6	2	3	4	— 1	— 6	— 14	1	7	— 2	— 8	— 5	95
15	1	— 2	— 1	6	11	9	2	— 2	— 13	— 2	— 9	3	109
16	— 3	— 1	— 5	— 4	3	8	12	9	4	4	— 7	— 7	95
17	— 3	— 3	1	1	7	5	19	— 22	— 20	10	6	13	153
18	— 11	— 5	0	— 4	— 11	— 16	— 10	5	20	7	0	— 1	164
19	— 1	— 2	— 2	— 2	— 1	— 3	0	2	0	4	4	1	75
20	0	— 8	— 3	— 17	— 13	— 1	0	5	8	8	0	1	87
21	3	— 1	1	1	— 1	— 2	— 1	0	— 1	3	— 1	5	45
22	0	11	13	10	8	1	— 3	— 6	— 20	— 17	— 6	0	144
23	— 2	2	1	— 3	— 2	— 2	0	0	— 3	— 5	— 5	— 3	99
24	8	3	0	— 6	— 8	— 7	— 4	1	3	3	7	1	85
25	6	— 1	— 3	3	3	3	0	1	0	— 4	— 4	— 7	51
26	— 1	— 1	— 2	2	3	1	— 4	— 5	— 5	0	0	1	50
27	— 10	— 11	— 17	— 1	4	3	2	2	— 2	— 7	— 1	— 6	133
28	— 9	— 5	— 7	— 5	— 2	— 2	— 4	— 2	— 3	— 1	1	1	102
Hourly Amount.	117	120	112	118	154	117	126	93	148	105	99	96	2567

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

FEBRUARY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0	0	0	1	1	3	3	2	— 2	— 12	— 4	4	—
2	— 2	— 1	1	3	2	3	3	8	0	0	2	— 3	—
3	1	1	1	0	— 1	— 1	— 2	5	13	25	9	— 15	—
4	8	4	11	14	7	1	— 1	— 13	— 11	— 12	— 8	— 1	—
5	2	4	5	8	9	6	8	— 18	— 11	— 4	0	2	—
6	1	4	3	3	6	2	4	7	10	8	3	— 9	—
7	2	— 1	— 1	— 3	— 3	— 1	— 4	— 2	— 1	1	— 3	— 4	—
8	— 4	— 4	— 2	3	0	— 1	— 3	3	1	0	— 2	— 2	—
9	— 1	— 3	— 2	0	0	1	1	0	3	0	— 2	— 4	—
10	5	6	4	5	7	8	4	— 9	— 7	— 8	— 5	— 5	—
11	1	2	4	3	4	5	8	6	10	— 1	— 8	— 6	—
12	— 5	— 5	— 7	— 6	— 6	— 9	— 7	22	19	10	9	5	—
13	3	3	1	0	— 2	— 2	— 3	0	— 9	— 10	— 4	— 11	—
14	1	1	— 1	2	4	4	6	— 4	— 1	2	— 1	— 2	—
15	— 4	— 6	— 8	— 7	— 7	3	— 3	2	— 7	— 5	2	2	—
16	— 1	— 1	0	0	0	2	7	2	— 2	— 3	— 5	— 2	—
17	2	1	1	— 3	2	— 3	0	— 1	— 1	— 2	0	4	—
18	7	0	— 4	— 3	— 4	6	— 6	— 5	— 6	— 1	0	0	—
19	— 3	— 7	— 3	— 9	— 1	— 1	3	11	10	2	— 1	0	—
20	2	2	— 1	— 3	— 5	— 8	— 3	5	5	1	10	11	—
21	— 3	— 2	— 4	— 6	— 4	— 3	3	15	24	36	13	14	—
22	3	4	5	3	8	4	5	— 8	— 2	2	6	8	—
23	— 5	— 7	— 7	— 10	— 14	— 15	— 19	— 5	— 1	1	8	20	—
24	— 3	2	0	1	2	1	— 2	— 10	— 9	— 9	— 4	— 1	—
25	1	2	2	5	6	0	— 4	— 12	— 10	— 5	— 2	— 1	—
26	0	0	— 2	— 1	— 1	— 6	— 3	2	— 1	3	— 1	0	—
27	— 4	— 2	— 6	— 3	— 10	2	4	— 2	— 8	— 5	0	1	—
28	— 12	— 1	— 1	— 4	— 3	— 2	— 3	— 5	— 5	— 11	— 5	— 3	—
Hourly Amount.	86	76	87	109	119	103	122	184	189	179	117	140	—

FEBRUARY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	0	0	0	1	— 2	— 5	— 3	1	1	1	2	— 1	49
2	— 1	— 3	— 4	— 7	— 7	— 4	— 2	— 1	— 2	— 1	0	3	63
3	— 19	— 2	— 5	3	2	— 4	— 4	— 2	— 3	3	4	3	128
4	6	12	11	11	5	1	— 3	— 3	— 2	— 2	— 2	0	149
5	— 1	— 6	— 1	6	6	4	— 1	— 4	— 6	— 6	— 6	— 1	125
6	— 14	— 18	— 14	— 10	— 3	1	1	3	2	3	3	2	134
7	— 1	5	10	7	2	3	— 1	— 3	— 2	2	— 2	— 4	68
8	— 2	2	— 2	— 1	11	8	7	5	— 4	0	— 3	0	70
9	— 4	— 6	— 4	— 3	0	1	0	— 2	0	3	4	6	50
10	4	3	3	0	— 4	— 2	— 3	— 3	— 3	— 2	0	0	100
11	— 4	— 5	— 4	— 4	1	— 3	— 3	— 2	— 3	— 2	— 8	— 4	101
12	1	— 7	— 15	— 9	— 3	1	3	3	4	5	4	6	171
13	0	6	13	9	4	1	0	— 2	— 2	— 2	— 2	0	89
14	1	— 1	— 2	— 1	— 3	1	6	— 3	— 6	2	6	2	63
15	3	2	9	5	3	— 2	1	2	11	3	5	— 4	106
16	1	— 1	— 3	— 5	— 9	— 8	— 6	— 3	0	2	7	5	75
17	6	0	— 8	— 2	— 1	— 1	— 11	15	18	— 4	— 5	— 7	98
18	0	2	1	— 2	1	9	9	— 3	— 9	1	5	3	87
19	— 5	— 7	— 6	— 1	3	3	0	— 1	— 1	— 1	— 1	— 1	81
20	3	— 2	— 2	15	10	3	2	— 2	— 3	— 6	— 4	— 3	111
21	— 7	— 15	— 15	— 18	— 11	— 7	— 8	— 6	— 4	— 2	— 1	1	222
22	6	— 3	— 8	— 18	— 16	— 3	3	3	12	9	2	— 4	145
23	18	15	11	7	1	— 1	— 1	0	1	1	6	5	179
24	0	3	1	4	2	1	4	— 1	— 2	— 1	— 2	1	66
25	0	— 2	1	— 1	2	4	4	3	2	2	0	1	72
26	0	— 2	— 4	— 7	— 1	3	6	5	3	— 1	— 1	0	53
27	4	13	18	11	3	— 2	2	— 2	1	2	— 4	— 1	110
28	8	17	18	12	6	0	2	1	0	— 3	— 2	— 3	127
Hourly Amount.	119	160	193	180	122	86	96	84	107	72	91	71	2892

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1.

MARCH. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 3	— 4	— 3	— 3	— 3	— 2	— 8	— 6	— 3	7	10	19	—
2	— 7	— 4	— 3	— 3	— 2	— 4	— 4	— 2	7	13	19	20	—
3	2	2	1	0	0	0	— 12	— 7	— 2	1	4	9	—
4	1	1	1	1	1	— 6	— 3	2	3	0	— 5	— 7	—
5	— 2	— 1	— 2	— 2	— 3	— 2	— 2	4	7	4	— 1	— 4	—
6	— 2	— 1	0	0	0	0	6	2	3	— 6	— 7	— 10	—
7	— 1	— 1	— 2	1	0	— 4	— 2	4	5	— 1	— 9	— 1	—
8	— 2	— 1	— 1	— 1	1	2	6	1	0	— 4	— 3	— 6	—
9	1	1	2	1	1	1	— 1	— 4	— 5	— 7	3	— 4	—
10	— 1	— 2	— 1	— 2	— 1	— 2	— 5	3	4	3	0	— 5	—
11	— 3	— 4	— 3	— 3	— 3	— 2	— 3	2	10	8	4	0	—
12	— 1	— 1	1	0	2	1	3	— 2	— 2	— 2	0	— 2	—
13	1	— 1	— 2	— 3	— 1	— 2	1	— 2	4	3	0	— 4	—
14	— 3	— 2	— 2	— 3	— 1	11	3	— 4	— 1	8	3	4	—
15	— 1	— 2	— 3	— 3	— 3	— 2	0	1	3	6	11	13	—
16	1	0	1	0	0	1	— 5	— 5	0	2	1	4	—
17	0	0	0	1	2	2	0	— 4	— 7	— 1	— 1	2	—
18	1	— 1	— 2	— 5	0	— 3	10	7	3	2	3	8	—
19	3	5	5	4	1	— 1	— 3	— 5	— 4	— 10	— 7	— 6	—
20	0	1	0	0	0	2	2	1	0	— 2	— 8	— 4	—
21	3	5	4	4	5	7	5	0	— 6	— 14	— 14	— 12	—
22	0	— 1	— 1	0	— 1	2	5	1	— 1	— 4	— 6	— 4	—
23	0	— 1	0	1	2	3	5	3	— 6	— 8	— 8	— 6	—
24	0	— 1	1	1	3	3	5	1	— 6	— 11	— 6	— 3	—
25	0	— 1	0	— 1	— 1	0	2	0	0	3	1	2	—
26	1	0	3	2	2	2	6	1	— 6	— 4	— 7	— 2	—
27	2	1	2	1	— 5	— 6	— 2	3	— 3	0	9	6	—
28	2	3	3	1	— 4	— 6	— 10	— 5	6	11	11	7	—
29	4	6	— 2	5	2	4	— 1	5	1	3	3	— 11	—
30	4	1	1	3	2	— 1	— 2	— 4	— 3	1	5	0	—
31	3	2	2	3	3	3	1	2	— 3	— 5	— 4	— 1	—
Hourly Amount.	55	57	54	58	55	87	123	93	114	154	173	186	—

MARCH. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	7	1	— 8	— 13	— 9	— 2	3	6	0	— 3	— 4	— 4	131
2	8	0	— 6	— 10	— 8	— 4	— 4	— 1	— 2	0	1	1	130
3	6	2	— 1	— 6	— 2	2	3	0	0	0	0	1	63
4	— 1	3	4	5	2	4	3	1	— 3	— 2	— 1	0	60
5	1	0	0	5	3	1	3	— 1	— 3	— 1	— 1	— 1	54
6	— 10	4	— 3	5	11	6	7	0	6	— 1	— 5	0	95
7	3	3	1	1	— 1	3	— 2	— 1	— 3	— 2	— 2	— 1	54
8	0	7	9	7	3	— 3	— 1	1	0	1	0	0	60
9	— 6	— 3	5	6	3	2	— 1	1	— 1	— 1	— 1	— 1	62
10	— 2	— 2	2	5	5	5	2	— 1	— 1	— 1	— 1	— 2	58
11	— 5	— 4	0	9	8	3	— 1	— 2	— 3	— 2	— 2	— 1	85
12	— 5	— 4	2	1	— 1	0	2	3	1	2	1	1	40
13	— 3	1	5	5	3	3	1	— 1	— 1	— 3	— 3	— 3	56
14	0	— 7	— 4	— 5	0	— 1	2	1	— 1	0	— 1	0	67
15	7	— 3	— 7	— 3	— 2	— 4	— 2	0	0	1	0	1	78
16	2	1	0	1	2	0	— 1	— 2	2	1	2	1	35
17	3	0	0	— 2	— 4	— 1	— 1	0	— 1	0	1	— 3	36
18	7	7	2	0	— 9	— 7	— 4	— 1	0	2	3	4	91
19	— 3	— 5	— 2	— 1	0	3	1	4	2	1	1	2	79
20	— 1	7	2	3	0	— 1	1	2	1	3	1	3	45
21	— 10	— 2	— 1	0	0	1	2	4	1	2	1	2	105
22	6	11	9	— 1	— 3	— 4	— 4	0	0	— 1	— 1	0	66
23	— 2	2	6	4	4	4	0	1	0	0	0	0	66
24	2	5	0	— 5	— 3	0	1	2	0	0	— 1	0	60
25	4	3	3	3	0	— 3	— 2	— 2	— 1	— 1	— 1	— 1	35
26	— 2	— 4	— 2	— 1	0	1	1	2	3	2	3	3	60
27	4	— 6	— 7	— 5	— 3	— 1	1	3	3	2	1	3	79
28	1	— 1	— 1	0	— 5	— 3	— 7	— 8	1	1	0	— 6	103
29	— 6	— 7	— 9	— 1	5	1	2	— 4	4	— 1	5	— 2	94
30	— 3	— 1	5	2	— 2	— 6	— 1	0	0	0	0	2	49
31	0	— 2	1	— 3	— 2	— 1	— 1	1	2	3	3	3	54
Hourly Amount.	120	108	107	118	103	77	67	56	46	40	47	52	2150

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

MARCH.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	1	3	0	7	9	— 3	18	16	15	12	— 5	— 27	—
2	5	— 5	4	3	6	7	9	4	0	— 3	— 4	3	—
3	— 3	— 5	8	2	— 3	— 6	— 5	— 6	— 2	— 3	1	6	—
4	1	0	0	2	— 3	— 5	— 5	— 2	— 2	1	— 1	— 2	—
5	8	2	3	4	6	3	4	— 9	— 8	— 5	— 4	4	—
6	2	4	— 2	12	14	17	10	8	3	1	— 14	— 5	—
7	— 4	11	4	5	7	9	2	4	0	— 1	1	— 4	—
8	2	0	— 1	6	4	8	— 1	2	1	7	— 1	4	—
9	1	4	— 2	0	— 2	— 4	— 5	— 6	— 7	— 3	4	7	—
10	— 2	— 4	— 3	— 2	— 2	— 2	— 3	— 3	— 4	— 3	1	4	—
11	0	— 2	— 2	0	— 3	— 1	— 4	— 8	— 5	— 3	1	4	—
12	1	0	— 1	0	— 1	— 1	— 5	— 5	— 4	— 2	3	7	—
13	4	7	7	4	— 1	— 1	- 5	— 6	2	4	7	12	—
14	5	8	1	7	— 11	— 2	0	3	0	— 6	2	— 1	—
15	— 14	3	— 6	— 3	0	3	— 2	— 2	— 2	4	— 1	— 6	—
16	— 3	— 3	— 4	— 4	— 5	— 5	0	4	5	5	6	2	—
17	— 6	— 9	— 7	— 7	— 8	— 9	— 4	2	2	7	10	9	—
18	1	0	22	— 11	— 14	9	— 14	— 12	— 14	— 13	— 15	— 9	—
19	— 3	— 4	— 3	1	5	4	5	6	3	1	— 3	1	—
20	— 2	— 3	— 3	1	— 3	— 7	— 2	— 5	— 6	— 7	0	7	—
21	— 2	— 8	3	— 3	— 1	— 8	— 6	0	3	5	2	4	—
22	— 8	— 7	— 9	— 7	— 3	— 1	2	— 1	— 3	— 7	7	5	—
23	— 7	— 4	— 2	— 3	— 3	— 12	— 4	— 1	— 7	— 3	5	8	—
24	— 2	— 4	— 4	— 1	— 2	— 3	— 2	— 1	0	— 1	1	3	—
25	4	3	3	5	6	6	1	— 4	— 2	1	5	2	—
26	— 2	— 2	— 7	— 6	— 6	— 4	— 4	— 2	2	4	6	9	—
27	2	— 5	— 7	1	— 1	— 4	— 2	— 1	6	3	— 4	— 2	—
28	21	10	5	13	16	12	13	13	6	— 3	— 9	— 34	—
29	1	13	13	— 3	0	4	1	1	3	— 1	— 10	— 8	—
30	0	3	1	— 7	— 1	2	6	8	11	7	3	— 1	—
31	— 2	— 3	— 6	— 4	— 1	— 2	0	— 1	2	— 1	1	2	—
Hourly Amount.	119	139	143	135	147	164	144	146	130	127	137	202	—

MARCH.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 19	— 5	14	9	4	8	— 10	— 38	— 19	— 14	— 4	0	260
2	4	— 1	— 5	— 3	3	— 6	4	4	6	0	— 2	— 4	95
3	8	2	— 2	— 4	— 1	2	1	4	4	2	1	— 3	84
4	— 2	1	3	4	1	0	— 14	— 17	0	2	6	0	74
5	2	12	16	1	— 10	— 9	— 9	— 9	— 1	— 2	2	— 2	135
6	— 1	2	0	13	— 8	— 26	— 11	9	— 3	15	— 8	— 3	191
7	— 20	— 21	— 15	— 5	— 4	— 3	4	6	3	4	2	2	141
8	4	— 4	— 10	1	2	3	4	3	2	- 1	— 5	— 5	81
9	6	2	— 2	— 3	— 3	— 2	3	3	3	— 1	0	— 3	76
10	12	12	4	2	3	0	— 1	0	1	0	1	— 2	71
11	8	7	3	— 1	1	0	— 1	0	— 1	— 1	3	0	59
12	4	1	3	8	7	0	— 1	0	— 2	— 7	— 6	— 4	73
13	1	— 3	— 7	— 12	— 10	— 9	— 11	8	5	3	8	2	139
14	— 6	1	0	6	6	3	3	5	1	— 7	— 12	— 11	107
15	2	7	9	8	5	2	— 3	— 4	0	— 7	7	— 7	107
16	3	— 5	2	6	5	6	4	5	— 3	— 7	— 5	2	99
17	7	2	1	5	7	1	11	12	10	6	10	19	171
18	— 3	— 8	— 7	— 12	— 6	4	3	4	3	3	- 1	- 1	189
19	3	5	2	— 1	— 1	1	2	4	3	1	0	— 5	67
20	7	8	5	5	5	4	— 1	— 4	— 1	— 5	— 1	— 2	94
21	4	0	4	6	4	4	7	1	0	— 2	4	1	82
22	12	11	— 13	— 10	— 5	0	12	10	1	4	8	— 1	147
23	4	2	1	7	1	1	1	— 5	— 1	3	7	— 1	93
24	0	14	16	4	5	— 7	— 13	— 6	0	— 3	0	— 2	94
25	— 1	2	— 6	— 9	— 7	1	2	— 1	— 1	— 2	— 2	— 2	78
26	5	3	5	0	— 1	1	2	8	4	2	— 6	— 2	93
27	— 3	— 1	0	— 5	— 4	— 5	— 3	— 3	— 3	11	5	5	86
28	— 34	— 26	— 17	— 9	— 5	9	0	2	9	2	— 4	14	286
29	— 6	— 9	— 2	— 2	— 2	6	6	0	— 15	— 6	— 8	19	139
30	— 7	— 11	— 5	— 5	— 1	5	7	4	1	4	0	3	103
31	2	0	3	0	2	6	3	— 1	— 2	0	— 1	— 5	51
Hourly Amount.	200	188	182	166	129	134	157	180	108	127	129	132	3565

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

	Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
MARCH.	1	— 2	— 2	— 6	— 5	— 4	5	— 9	1	— 3	— 10	— 10	2	—
	2	— 7	2	— 7	— 4	— 5	— 3	0	7	6	1	— 8	— 12	—
	3	1	3	— 8	— 4	0	4	4	2	— 3	— 6	— 6	— 1	—
	4	2	3	— 1	2	7	9	6	— 4	— 1	4	4	3	—
	5	— 3	— 2	— 6	— 3	— 6	— 4	0	10	7	4	7	3	—
	6	0	1	— 1	— 7	— 8	— 10	— 7	— 9	— 3	— 1	7	5	—
	7	5	— 5	— 1	0	— 3	1	5	— 2	— 2	0	— 5	— 6	—
	8	— 4	— 4	— 6	— 10	— 11	— 13	— 4	11	10	9	6	3	—
	9	1	— 1	3	4	5	8	10	— 2	3	8	1	— 2	—
	10	2	— 1	— 3	— 2	— 3	— 5	— 8	— 2	— 4	1	0	0	—
	11	4	6	5	5	7	6	— 1	— 12	— 12	— 4	3	7	—
	12	2	3	2	3	4	3	4	— 6	1	3	7	— 2	—
	13	— 1	0	— 2	3	6	7	4	3	4	0	— 5	— 7	—
	14	— 6	— 6	— 3	— 3	6	— 5	— 3	9	3	4	3	5	—
	15	7	— 3	0	1	— 1	0	— 2	— 6	— 6	— 2	5	8	—
	16	4	5	4	7	8	9	4	— 19	— 13	— 6	— 2	1	—
	17	— 3	1	— 5	— 3	— 2	— 3	— 2	10	6	— 2	— 7	— 6	—
	18	— 9	— 14	56	10	7	— 19	3	23	30	27	20	11	—
	19	0	1	— 3	— 1	— 3	— 1	4	9	10	6	— 1	— 5	—
	20	1	1	— 2	— 4	— 4	— 1	— 2	6	6	8	2	— 6	—
	21	1	5	— 4	1	0	3	9	2	— 5	— 3	— 2	— 5	—
	22	4	3	0	— 1	— 6	— 8	— 7	— 2	— 2	— 2	— 1	— 2	—
	23	5	3	— 3	1	— 2	1	— 5	— 9	4	— 1	— 5	— 6	—
	24	2	3	1	— 1	0	0	1	4	5	— 2	— 3	— 3	—
	25	— 1	0	— 3	— 1	— 2	— 1	— 2	— 2	— 5	— 4	— 6	— 1	—
	26	2	3	3	4	6	3	0	— 8	— 11	— 7	— 6	— 2	—
	27	— 1	4	3	— 2	— 1	4	— 4	— 2	— 6	— 11	— 1	— 2	—
	28	— 9	— 7	— 1	— 4	— 4	0	— 3	— 9	— 13	— 8	— 3	11	—
	29	— 3	— 7	— 13	2	0	— 1	— 1	4	— 1	— 3	2	5	—
	30	0	— 1	0	5	3	2	0	— 4	— 7	— 6	— 2	5	—
	31	6	8	5	8	6	7	9	— 6	0	1	— 1	— 3	—
	Hourly Amount.	98	108	160	111	130	146	123	205	192	154	141	140	—

	Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
MARCH.	1	10	9	3	7	4	— 5	4	22	14	5	— 5	— 4	151
	2	— 8	3	10	7	2	3	— 3	— 3	— 4	2	2	5	114
	3	1	6	14	13	3	— 5	— 4	— 4	— 3	0	— 1	2	98
	4	— 5	— 9	— 12	— 10	— 6	0	8	9	— 1	— 3	— 5	— 1	115
	5	— 2	— 1	— 13	— 6	4	10	6	6	3	1	— 1	1	109
	6	1	— 2	1	— 6	2	24	7	— 7	3	— 8	10	7	137
	7	— 4	— 4	— 6	— 7	— 4	0	0	0	4	0	1	1	66
	8	0	2	3	1	2	0	— 3	— 1	0	3	9	9	124
	9	— 3	— 8	— 11	— 4	— 3	— 1	— 4	— 5	— 4	— 1	— 2	2	96
	10	1	3	5	5	— 1	1	— 1	— 1	— 1	1	3	5	59
	11	3	0	— 3	— 1	1	1	1	— 1	— 3	0	— 4	0	90
	12	— 9	— 10	— 8	— 5	— 8	— 1	0	— 1	1	5	3	4	95
	13	— 6	— 7	— 2	3	3	4	3	— 8	— 8	— 4	— 7	— 3	100
	14	8	— 1	— 5	— 9	— 3	0	1	0	4	7	9	7	110
	15	2	— 6	— 4	— 3	— 3	0	1	5	1	5	1	7	79
	16	7	8	— 1	— 2	— 5	— 6	— 2	— 2	— 1	2	1	— 1	120
	17	— 4	1	0	— 4	— 6	— 5	— 9	— 12	— 12	— 13	— 17	— 38	171
	18	1	— 2	2	3	0	— 9	— 7	— 8	— 5	— 2	— 1	— 1	270
	19	— 9	— 8	— 3	— 3	— 3	— 4	0	— 1	1	1	1	4	82
	20	— 6	— 4	— 1	0	1	0	2	2	3	3	4	1	70
	21	— 1	3	— 1	— 5	— 3	— 4	— 2	1	2	3	0	2	67
	22	— 1	4	24	19	10	— 2	— 7	— 8	— 3	— 1	— 4	1	122
	23	— 6	— 7	— 3	0	5	5	2	3	1	— 1	— 4	1	83
	24	— 2	— 3	— 2	1	— 2	2	10	4	— 2	0	0	1	54
	25	3	2	9	10	6	0	0	0	0	— 1	0	3	62
	26	5	4	0	— 3	1	2	— 2	— 4	— 4	— 5	4	6	95
	27	4	12	12	10	6	4	— 1	— 2	— 1	— 8	— 8	— 5	114
	28	13	11	7	7	2	— 3	5	8	— 2	— 1	2	— 7	140
	29	7	7	2	— 3	— 2	— 4	— 1	2	11	6	5	— 10	102
	30	7	0	— 10	— 6	0	0	0	3	5	4	6	5	81
	31	— 5	— 7	— 11	— 5	— 5	— 4	— 4	— 2	— 1	— 4	— 6	— 3	117
	Hourly Amount.	144	154	188	168	106	109	100	135	108	100	126	147	3293

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	1	0	1	3	2	2	— 3	— 6	— 8	— 6	2	1	—
2	1	— 2	— 1	0	— 1	— 2	— 8	— 9	— 5	— 4	3	10	—
3	— 1	— 2	— 5	— 3	— 1	— 1	— 1	1	— 3	— 1	— 1	— 1	—
4	— 5	— 5	— 2	— 2	— 2	— 5	— 7	— 3	0	4	4	9	—
5	1	0	— 1	1	1	0	— 5	— 3	— 7	— 9	— 2	8	—
6	1	0	0	0	0	— 1	— 8	— 7	— 3	— 5	— 1	7	—
7	4	2	2	3	4	4	— 1	— 1	— 3	— 9	— 11	— 13	—
8	— 1	— 2	— 2	— 2	— 6	— 7	— 9	— 4	1	12	8	5	—
9	— 1	0	2	— 1	0	1	2	4	1	— 2	0	0	—
10	— 1	— 5	0	— 8	— 6	— 9	— 2	— 2	3	11	10	10	—
11	3	3	4	— 2	— 3	0	— 2	1	— 1	— 1	— 6	— 10	—
12	2	3	3	4	4	5	7	4	1	— 3	— 8	— 9	—
13	— 3	— 1	0	1	1	2	1	0	— 3	— 4	— 2	1	—
14	1	2	1	0	0	— 4	— 5	— 9	0	— 1	2	3	—
15	1	2	2	1	2	— 1	2	— 1	1	— 2	— 4	— 2	—
16	0	0	— 1	0	0	0	1	— 4	— 3	— 2	4	2	—
17	3	1	1	0	— 2	— 2	— 3	— 3	— 3	3	1	0	—
18	0	0	0	— 1	— 2	— 4	1	0	— 2	— 3	— 1	4	—
19	0	0	0	1	0	— 4	— 5	— 6	— 1	2	— 1	— 4	—
20	— 5	— 4	— 4	— 3	— 6	— 5	— 1	1	— 1	3	8	12	—
21	— 2	— 2	— 2	— 2	— 1	— 1	1	1	4	1	3	5	—
22	0	— 1	— 3	— 2	— 1	— 2	— 2	5	8	4	— 3	— 5	—
23	2	2	2	4	4	6	4	6	2	— 5	— 12	— 13	—
24	— 3	2	1	2	3	5	12	10	1	— 2	— 10	— 12	—
25	1	1	1	3	2	4	5	0	— 2	0	0	— 3	—
26	0	— 1	1	— 2	2	11	11	4	2	5	0	— 1	—
27	2	2	2	3	1	1	2	2	2	1	5	1	—
28	— 4	0	— 2	— 1	0	— 1	— 5	5	8	12	18	7	—
29	— 2	2	— 1	3	0	4	8	11	7	9	2	— 4	—
30	2	— 1	— 1	— 1	1	2	7	8	6	1	— 6	— 11	—
Hourly Amount.	53	48	48	59	58	96	131	121	92	127	138	173	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
APRIL. 1	— 1	— 3	— 3	— 3	— 2	1	2	4	3	4	3	2	66
2	8	4	5	2	— 2	— 1	0	0	0	1	1	1	71
3	6	15	12	0	— 7	— 3	0	2	1	1	1	— 4	73
4	9	7	6	3	— 5	— 4	— 3	0	— 2	— 1	1	2	91
5	12	8	1	— 7	— 7	— 2	0	2	2	5	3	2	89
6	9	6	2	— 5	— 4	— 1	0	2	2	5	4	5	78
7	— 7	— 4	— 6	— 5	— 2	3	5	8	5	6	0	3	111
8	4	13	5	4	— 3	— 3	— 3	— 4	— 2	— 10	— 2	— 1	113
9	— 2	1	0	— 1	— 1	3	2	3	3	— 2	— 2	— 4	38
10	7	4	— 3	0	— 3	— 1	0	0	— 2	2	0	3	92
11	— 11	— 6	— 4	— 3	4	5	4	4	3	4	3	2	89
12	— 14	— 15	— 11	— 4	1	5	4	5	5	6	4	1	128
13	— 2	— 4	— 4	— 3	1	3	2	4	4	3	2	— 1	52
14	5	0	— 4	— 2	— 1	1	0	0	0	— 4	1	1	47
15	— 1	— 1	0	5	1	— 4	1	1	0	0	1	0	36
16	0	— 3	— 2	— 1	1	0	— 2	— 1	— 2	1	1	3	34
17	5	4	6	5	1	— 1	— 2	— 2	— 2	— 2	— 4	— 3	59
18	— 1	0	2	3	5	1	0	1	— 1	1	2	3	38
19	— 1	2	2	3	3	3	1	1	0	0	— 2	— 2	44
20	10	4	1	1	0	— 2	— 3	— 2	— 3	— 5	0	— 1	85
21	3	1	5	5	— 1	— 2	— 3	— 3	— 3	— 2	— 6	— 10	69
22	— 2	5	11	9	6	— 2	— 6	— 6	— 6	— 3	2	— 1	95
23	— 4	— 5	— 4	1	3	1	0	2	1	0	— 1	— 2	86
24	— 7	— 4	— 1	— 2	— 1	0	2	2	1	3	2	2	90
25	— 7	— 10	— 9	— 3	4	2	1	— 5	— 1	— 4	— 2	0	70
26	— 4	— 2	— 2	— 3	— 2	— 2	— 3	— 4	— 1	— 2	0	2	67
27	— 3	— 4	0	2	0	0	— 3	— 4	— 5	— 5	— 4	— 2	56
28	— 4	— 6	— 1	— 1	1	1	— 1	— 9	— 8	— 5	— 8	0	108
29	— 8	— 8	— 5	— 5	— 2	— 4	— 1	— 2	— 2	1	— 1	1	93
30	— 8	— 5	1	1	3	2	4	3	3	4	3	1	85
Hourly Amount.	165	154	118	92	77	63	58	86	73	92	66	65	2253

HORIZONTAL FORCE. D.

DEVIATIONS — UNITY = 0.00001 C. G. S.

APRIL.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	2	1	— 5	— 5	3	1	0	0	2	5	3	0	—
2	4	3	— 6	6	— 3	— 3	— 5	— 5	5	10	13	— 1	—
3	— 3	— 6	1	— 6	— 6	— 6	— 8	— 7	8	9	5	7	—
4	0	— 7	— 11	— 6	— 10	— 6	— 9	— 6	— 7	— 4	6	8	—
5	4	— 1	— 5	— 7	— 5	— 3	— 4	— 7	— 4	0	7	6	—
6	2	1	— 1	— 4	— 4	— 3	— 5	— 3	— 5	— 4	5	12	—
7	4	2	— 2	— 5	— 8	— 9	— 12	— 16	— 16	— 9	0	10	—
8	— 6	1	23	27	28	21	25	19	— 6	— 31	— 28	— 22	—
9	12	5	14	14	1	— 3	— 4	— 11	0	3	0	7	—
10	— 21	— 17	— 3	— 4	0	— 1	1	6	— 2	1	— 5	— 14	—
11	4	7	1	— 4	— 4	— 2	0	3	— 1	— 1	0	3	—
12	1	1	3	6	0	1	— 3	3	5	2	7	4	—
13	4	8	5	4	0	9	6	7	6	4	— 3	— 8	—
14	— 7	1	— 6	— 7	— 5	— 2	1	— 2	— 1	4	3	6	—
15	— 2	1	— 3	— 3	0	— 5	— 12	— 6	— 7	1	5	3	—
16	— 2	— 2	— 4	— 2	— 3	— 5	— 5	— 4	0	7	7	2	—
17	— 1	— 1	— 1	1	6	— 4	1	2	4	3	7	0	—
18	— 2	— 2	— 3	— 3	— 3	— 4	— 3	1	3	1	6	0	—
19	0	0	— 2	— 3	— 3	— 4	— 4	— 7	— 9	— 2	0	12	—
20	3	2	— 1	— 3	— 2	— 2	1	6	8	1	— 2	2	—
21	3	1	2	— 1	1	0	2	— 1	— 4	— 2	1	10	—
22	— 13	— 3	2	— 7	— 1	2	4	9	3	0	— 5	— 3	—
23	— 1	— 1	2	1	— 1	1	3	1	2	7	2	5	—
24	0	1	— 4	— 5	— 7	— 4	0	— 4	3	— 1	0	— 1	—
25	2	2	— 2	— 3	0	2	4	10	7	2	— 3	— 2	—
26	3	— 1	— 2	15	9	14	23	8	1	— 5	— 10	— 26	—
27	2	1	0	2	1	3	1	0	4	3	0	1	—
28	2	0	0	1	10	16	9	2	5	— 5	— 8	— 15	—
29	— 6	— 5	— 3	— 3	— 1	— 3	0	3	4	2	— 1	1	—
30	— 1	0	— 2	2	0	— 2	— 2	1	— 1	1	0	4	—
													—
Hourly Amount.	117	84	119	160	125	141	157	160	133	130	142	195	—

APRIL.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	1	— 6	— 2	5	12	6	— 3	— 8	— 6	— 6	— 4	2	88
2	— 3	— 10	— 4	4	5	7	3	— 9	— 7	— 4	— 3	— 4	127
3	12	10	— 4	— 11	1	9	4	6	13	9	8	3	162
4	4	— 1	— 3	0	1	— 1	— 1	1	4	4	— 1	7	108
5	3	4	7	4	— 1	— 2	— 3	1	0	0	1	1	80
6	6	2	— 1	2	1	1	3	5	1	— 1	2	1	75
7	13	20	26	6	17	11	— 3	— 10	— 7	— 10	2	— 10	228
8	— 19	— 43	— 36	— 25	— 15	— 6	— 2	7	2	18	5	8	423
9	11	11	14	15	8	— 4	— 1	5	— 2	5	0	— 15	165
10	— 8	— 1	7	— 1	3	— 3	— 1	5	2	3	4	4	117
11	2	— 2	— 4	— 1	— 4	— 6	— 2	— 1	0	1	3	3	59
12	— 2	— 6	— 4	— 6	— 6	— 2	— 2	0	0	0	0	0	64
13	— 4	— 8	— 7	— 1	— 1	1	— 1	4	— 4	— 4	— 8	4	111
14	5	1	1	5	3	0	— 1	1	2	11	3	— 4	82
15	4	5	— 1	— 1	— 1	4	0	2	2	1	0	— 2	71
16	1	— 4	— 4	— 1	— 1	4	4	4	3	1	— 2	— 2	74
17	— 5	— 2	— 4	— 6	— 5	0	1	1	6	2	4	6	73
18	0	— 1	— 2	0	3	5	1	— 1	0	2	2	— 1	49
19	11	8	5	3	— 3	— 6	— 2	— 5	— 4	— 7	— 3	— 1	104
20	— 7	— 3	— 3	— 1	— 6	— 9	— 3	1	2	3	6	7	84
21	8	4	— 2	0	— 2	0	3	6	9	— 1	— 5	— 9	77
22	— 3	0	2	4	1	4	0	— 2	— 1	— 2	— 2	— 3	76
23	— 7	1	2	4	5	0	1	0	— 6	— 7	— 3	5	68
24	— 4	1	4	1	— 2	0	— 1	— 1	0	— 1	— 1	— 1	47
25	— 7	3	9	10	— 3	6	4	— 24	— 13	— 2	0	5	125
26	— 15	— 2	— 4	— 6	— 9	— 6	— 2	— 1	2	1	2	2	169
27	2	1	— 7	— 7	— 4	— 4	— 2	1	0	2	2	— 1	51
28	— 3	7	11	2	3	— 6	— 1	2	1	— 11	— 3	— 4	127
29	1	— 2	— 5	0	1	4	5	6	6	— 6	— 2	— 1	71
30	9	11	3	1	— 6	— 4	— 1	1	2	1	2	4	61
Hourly Amount.	180	180	188	133	133	121	61	121	107	126	83	120	3216

VERTICAL FORCE. D.

DEVIATIONS — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
APRIL. 1	— 5	— 5	— 4	— 6	— 11	— 9	— 5	12	10	2	1	6	—
2	— 2	— 1	4	— 3	3	5	10	7	0	— 7	— 11	— 4	—
3	2	3	— 3	0	0	0	2	0	— 3	— 7	— 3	— 4	—
4	1	6	5	3	3	4	7	3	5	2	— 5	9	—
5	— 1	1	4	5	1	2	4	14	12	7	— 7	8	—
6	— 2	— 2	0	1	2	3	8	16	15	8	— 5	— 11	—
7	1	3	4	5	5	7	9	8	11	5	— 5	— 7	—
8	3	0	— 11	— 13	— 10	— 4	— 7	— 16	— 6	3	5	9	—
9	— 10	— 7	— 7	— 14	— 5	— 5	— 2	9	2	1	3	2	—
10	14	11	0	0	— 3	— 1	— 6	— 16	— 9	— 2	4	7	—
11	— 1	— 2	0	2	1	1	— 3	1	— 2	— 7	— 4	— 1	—
12	— 4	— 4	— 5	— 7	— 2	— 5	— 1	9	13	11	1	3	—
13	— 2	— 1	2	3	6	2	7	4	0	1	— 2	1	—
14	6	— 1	2	4	1	0	— 1	— 3	— 4	— 5	— 2	— 7	—
15	0	— 1	3	5	5	7	8	2	5	3	— 1	0	—
16	1	0	— 2	— 2	0	0	1	— 3	— 8	— 5	— 3	2	—
17	— 1	0	1	2	0	5	6	3	0	1	2	— 2	—
18	2	4	3	5	5	4	4	2	6	6	— 8	— 5	—
18	4	3	5	6	7	8	4	— 7	— 5	— 1	6	— 3	—
20	1	0	2	4	2	1	1	— 6	— 1	— 1	0	0	—
21	— 3	— 1	— 1	— 1	— 4	— 6	— 10	— 12	— 7	— 4	3	2	—
22	9	1	— 1	6	3	0	— 1	— 12	— 10	— 1	13	4	—
23	3	4	4	7	8	7	6	— 4	— 7	— 6	— 1	— 3	—
24	— 3	— 4	— 2	0	0	— 3	— 6	7	7	5	4	0	—
25	0	— 1	0	1	— 1	— 4	— 2	— 2	— 4	— 10	— 7	— 2	—
26	— 4	0	— 1	— 9	— 6	— 8	— 13	3	2	2	5	7	—
27	— 4	— 2	— 2	0	— 1	— 1	— 1	7	3	2	— 1	0	—
28	1	0	0	0	— 5	— 7	— 7	— 11	— 11	— 4	6	11	—
29	— 2	— 4	— 6	— 5	— 6	— 5	— 9	— 7	— 4	3	8	11	—
30	— 3	— 3	0	— 2	0	1	0	— 4	— 2	— 4	3	2	—
Hourly Amount.	95	75	84	121	106	115	151	210	174	126	129	133	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
APRIL. 1	9	10	6	1	— 3	— 3	0	4	1	1	1	— 1	116
2	— 5	2	— 3	— 1	0	— 4	— 3	5	5	2	0	2	89
3	— 10	— 2	13	16	5	— 7	— 1	— 5	— 5	— 3	— 2	1	97
4	— 9	— 7	— 2	1	0	0	— 1	— 2	— 1	— 2	1	— 3	82
5	— 12	— 12	— 7	— 3	3	1	— 1	— 2	— 1	— 1	— 2	— 2	113
6	— 10	— 2	— 4	— 2	— 2	— 2	— 2	— 2	— 1	— 2	— 2	0	104
7	— 13	— 7	— 1	2	— 5	— 6	2	5	3	7	— 1	6	128
8	12	28	21	17	1	— 4	— 1	— 7	— 8	— 10	— 9	— 9	214
9	3	8	5	5	2	4	1	— 4	0	— 2	— 3	7	111
10	7	5	2	2	0	2	3	— 2	— 2	— 5	— 4	— 2	109
11	— 1	— 3	2	0	1	4	3	1	0	— 3	— 4	— 6	53
12	3	2	1	— 2	— 1	0	— 1	0	2	1	2	3	83
13	— 3	— 4	— 6	— 7	— 6	— 5	— 1	— 3	3	3	5	2	79
14	— 1	4	4	— 2	— 1	3	3	1	0	— 6	0	2	63
15	— 4	— 11	— 13	— 8	— 1	1	1	1	3	1	1	2	87
16	7	8	4	4	2	— 1	— 2	— 3	— 1	1	2	2	64
17	— 3	— 8	— 11	— 8	— 5	— 1	0	0	0	2	3	2	66
18	— 4	— 5	— 5	— 4	— 5	— 2	0	2	4	4	3	6	98
19	— 7	— 7	— 3	— 2	— 2	1	0	2	1	3	2	1	90
20	2	— 3	— 5	— 3	1	4	1	— 2	— 3	— 2	— 1	— 2	48
21	6	7	11	7	5	3	0	— 4	— 3	4	10	7	121
22	0	— 7	— 7	— 9	— 4	1	1	0	0	0	2	4	96
23	0	— 3	— 7	— 9	— 3	2	1	0	2	3	1	— 5	96
24	— 3	— 3	— 3	1	3	2	1	0	0	1	1	0	59
25	11	9	— 1	— 6	1	0	0	17	6	— 1	— 4	— 5	95
26	8	0	3	5	6	4	3	1	— 2	— 1	— 2	— 5	100
27	— 2	— 6	— 4	— 1	— 1	4	3	3	3	3	4	4	62
28	11	5	4	4	0	4	3	0	— 3	2	3	5	107
29	9	10	12	5	2	1	— 2	— 3	— 1	5	3	0	123
30	— 3	— 7	— 5	— 2	4	3	0	0	1	0	1	1	51
Hourly Amount.	178	195	175	139	75	79	41	81	65	81	79	97	2804

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1.

MAY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 1	— 3	— 2	— 2	— 1	— 3	— 1	— 2	— 4	— 2	0	1	—
2	— 2	— 2	— 2	— 2	— 3	0	2	0	— 6	— 5	2	6	—
3	1	1	1	1	1	0	— 2	— 9	— 6	— 1	3	4	—
4	1	1	1	1	— 2	— 4	— 14	— 10	— 9	2	12	16	—
5	4	6	2	3	2	0	— 5	— 6	— 3	— 5	— 2	— 2	—
6	4	0	6	— 4	3	— 1	— 7	— 6	— 2	1	— 5	— 7	—
7	1	1	1	— 1	— 2	0	2	0	— 3	— 6	7	— 2	—
8	2	1	1	4	— 3	— 4	— 5	— 1	— 2	— 1	0	0	—
9	1	2	2	0	1	2	— 2	— 5	— 5	— 6	— 1	— 3	—
10	— 3	— 2	— 4	— 2	1	— 1	4	3	6	1	— 1	0	—
11	1	1	0	— 1	— 2	— 2	2	2	2	0	3	1	—
12	— 2	0	0	0	0	3	7	6	8	7	5	— 2	—
13	0	1	1	1	1	1	— 1	7	8	4	5	— 1	—
14	— 4	— 4	— 2	3	0	0	4	2	0	1	1	3	—
15	0	2	2	2	0	0	3	2	0	0	— 2	2	—
16	— 1	— 1	— 1	— 1	— 2	— 1	0	— 2	— 5	— 3	1	3	—
17	— 2	— 3	— 2	— 2	— 1	1	7	6	4	0	— 6	— 6	—
18	— 2	— 4	— 4	— 6	— 3	— 1	1	0	0	— 7	— 2	2	—
19	— 2	— 3	— 2	— 2	— 2	— 4	— 7	— 7	— 7	— 4	2	6	—
20	0	0	2	1	1	— 1	— 1	— 4	— 6	— 5	— 5	3	—
21	0	2	1	0	1	1	— 1	— 1	— 1	— 3	— 1	— 6	—
22	— 1	— 2	— 1	— 1	— 1	— 1	1	2	0	2	— 4	3	—
23	4	6	5	2	4	4	0	— 1	2	— 3	— 4	— 6	—
24	1	3	2	3	3	3	0	5	4	5	0	— 1	—
25	5	2	2	— 1	0	1	2	3	4	4	1	2	—
26	— 2	— 2	— 1	— 2	— 2	— 4	— 3	1	4	5	— 1	— 2	—
27	— 2	— 3	— 7	6	— 4	3	5	9	6	1	— 2	— 5	—
28	— 1	— 2	— 1	— 2	— 1	1	1	3	5	13	— 3	— 5	—
29	— 2	— 2	0	0	0	— 1	3	2	2	0	— 1	— 3	—
30	— 3	— 2	— 2	— 2	0	2	2	6	5	4	3	0	—
31	1	2	2	5	8	5	5	— 3	— 5	— 1	— 5	— 4	—
Hourly Amount.	56	66	62	63	55	55	100	116	124	102	90	107	—

MAY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	3	4	8	4	3	— 1	0	1	— 1	0	— 2	— 1	50
2	6	3	2	0	— 1	— 1	0	0	0	0	1	0	46
3	1	2	1	1	0	— 2	— 3	— 1	0	— 1	— 1	0	43
4	19	5	— 2	— 6	— 4	— 3	1	— 2	— 1	— 1	0	3	120
5	1	4	0	0	1	5	— 1	1	1	2	— 5	— 2	63
6	— 10	— 4	— 1	4	3	3	3	6	6	8	6	3	103
7	— 6	— 10	— 13	— 5	— 1	4	2	5	4	2	2	2	82
8	0	0	4	6	2	— 1	— 1	2	2	4	3	2	51
9	— 4	— 4	— 1	3	5	2	0	0	0	0	0	2	51
10	— 2	— 4	— 1	0	— 1	0	1	1	0	— 1	0	— 3	42
11	3	— 3	— 2	— 1	2	2	0	— 3	— 2	— 3	— 5	— 2	45
12	— 6	— 10	— 8	— 3	0	— 1	— 2	— 1	— 2	— 1	2	1	77
13	— 4	— 6	— 5	1	1	1	— 4	— 1	2	— 1	— 1	— 1	59
14	6	3	— 1	— 3	— 1	0	— 2	— 3	— 3	— 2	— 2	— 1	51
15	2	1	1	2	2	— 2	0	1	— 1	— 1	— 2	— 1	31
16	2	— 1	1	— 1	1	1	1	0	— 1	— 2	0	1	33
17	— 4	3	3	5	3	0	— 2	0	0	1	2	0	63
18	8	9	8	2	0	— 1	1	— 1	0	— 1	0	— 2	65
19	7	8	7	9	4	1	0	— 2	— 2	— 3	— 1	— 3	95
20	7	3	0	— 1	— 1	— 1	0	— 1	— 1	1	1	2	48
21	— 2	3	3	4	— 1	— 3	0	2	0	3	2	0	41
22	9	4	1	— 5	0	0	— 1	— 11	— 4	— 1	1	5	61
23	— 5	— 6	— 5	— 5	— 5	0	1	2	4	3	5	3	85
24	— 6	— 4	— 5	— 8	— 7	— 4	— 4	— 7	— 1	1	2	7	86
25	— 9	— 1	2	2	— 3	— 4	— 3	0	0	2	— 1	0	54
26	— 2	— 3	— 3	— 6	3	14	12	9	— 2	— 1	— 5	— 1	90
27	— 7	2	— 3	— 6	— 2	— 2	— 2	1	1	1	0	— 1	81
28	0	1	6	7	1	— 2	— 2	— 1	— 1	0	1	— 3	63
29	— 4	1	3	3	0	0	1	1	1	— 2	— 2	— 3	37
30	— 5	0	2	3	0	— 1	— 2	— 1	— 3	— 5	— 2	— 3	58
31	4	4	1	— 7	— 8	— 4	1	4	3	1	1	0	84
Hourly Amount.	154	146	103	113	66	66	53	71	49	55	58	58	1958

UNIVERSITY OF ILLINOIS LIBRARY
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HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

MAY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0	1	2	— 2	— 2	— 7	— 7	— 10	— 4	— 6	0	4	—
2	1	0	— 4	— 1	0	— 1	— 1	4	5	6	0	0	—
3	— 2	— 1	— 1	— 3	— 5	— 7	— 3	— 1	1	2	2	1	—
4	4	3	6	7	12	9	13	4	8	3	0	— 10	—
5	— 1	— 6	0	— 3	— 2	4	3	6	3	5	3	8	—
6	— 11	— 4	— 2	— 4	— 9	— 11	— 9	— 6	— 1	4	6	4	—
7	6	2	— 2	— 4	— 1	0	0	— 7	2	10	7	0	—
8	1	— 1	— 1	8	5	2	1	2	— 4	— 6	— 3	— 2	—
9	— 1	— 2	— 2	— 5	— 5	— 2	— 1	6	1	3	3	2	—
10	2	0	0	— 4	— 3	— 3	— 4	— 4	— 5	1	0	0	—
11	— 8	— 1	— 3	— 4	— 4	— 5	— 7	— 3	— 1	2	0	4	—
12	4	2	3	0	1	— 1	2	3	7	7	5	0	—
13	9	9	5	7	1	6	0	— 10	— 4	7	1	— 1	—
14	— 3	— 4	— 4	2	— 1	0	— 1	1	1	6	3	4	—
15	— 3	— 3	— 4	— 4	— 3	— 5	— 3	— 5	— 5	— 1	1	8	—
16	1	0	0	— 3	— 3	— 2	— 5	— 5	— 3	5	4	4	—
17	0	— 3	— 4	— 3	— 1	— 5	— 9	— 4	— 1	— 2	— 1	— 1	—
18	— 5	— 6	— 6	— 9	— 9	— 7	— 4	3	0	6	6	7	—
19	5	6	6	2	3	2	— 3	— 6	— 8	— 3	5	8	—
20	2	9	4	— 1	1	4	— 1	— 1	— 5	— 2	2	1	—
21	4	3	1	1	— 3	— 3	0	— 1	— 3	— 3	0	0	—
22	1	1	3	5	8	9	9	12	15	— 6	0	— 17	—
23	2	0	6	2	— 2	3	6	4	8	3	4	1	—
24	0	— 3	2	2	— 1	0	2	— 1	— 4	— 3	2	4	—
25	— 2	— 2	— 2	— 1	— 3	— 2	— 2	— 4	— 4	1	1	4	—
26	4	1	— 2	— 4	— 2	— 2	— 6	— 3	— 7	— 13	— 23	— 20	—
27	— 5	6	4	22	19	7	6	1	— 16	— 20	— 15	— 3	—
28	2	2	— 1	— 2	2	1	5	4	3	3	— 1	— 2	—
29	3	2	1	3	1	1	3	3	1	— 2	— 1	2	—
30	0	— 2	1	0	0	— 1	— 1	2	4	8	3	1	—
31	— 2	— 2	3	3	6	12	8	9	13	— 12	— 11	— 9	—
Hourly Amount.	94	87	85	121	118	124	125	135	147	161	113	132	—

MAY.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	9	9	3	— 1	— 2	1	2	0	— 2	— 5	— 3	— 3	85
2	— 2	— 2	0	2	1	1	2	0	0	0	— 2	— 3	38
3	— 2	1	0	— 2	2	3	3	0	— 5	— 6	— 3	— 3	59
4	— 14	— 17	— 6	0	7	11	— 17	— 3	— 5	— 3	— 4	— 5	171
5	— 2	2	0	2	8	— 2	— 4	1	5	— 2	15	— 4	91
6	— 7	— 1	— 4	0	1	3	5	2	4	4	5	1	108
7	2	— 3	— 7	— 9	— 6	— 5	4	— 2	— 3	— 1	— 1	5	89
8	4	5	0	— 4	— 3	— 1	2	1	1	0	1	— 1	59
9	0	3	3	2	2	0	5	2	0	0	— 2	— 1	53
10	4	9	10	16	8	5	1	— 6	— 1	— 11	— 7	— 4	108
11	0	1	2	1	— 6	— 6	1	— 1	— 3	0	2	2	67
12	— 7	— 8	— 5	— 2	— 2	2	1	4	4	1	— 7	— 2	80
13	3	— 2	— 4	— 5	— 1	2	3	6	— 10	— 7	— 5	— 6	114
14	— 1	— 8	— 4	— 6	— 1	5	8	8	9	1	— 6	5	92
15	7	1	— 1	— 6	— 4	1	2	2	— 1	0	0	1	71
16	6	4	0	— 2	1	1	4	1	— 1	— 4	— 5	— 5	69
17	9	13	9	2	1	2	4	2	1	— 1	— 3	— 5	86
18	4	— 1	1	3	6	4	6	2	1	2	1	4	103
19	8	— 1	— 9	— 15	— 14	— 12	— 4	— 8	— 3	4	5	5	145
20	— 3	— 3	— 6	— 6	— 4	— 3	— 5	0	4	1	2	2	72
21	7	7	12	14	12	3	— 3	— 9	— 7	— 5	— 5	— 5	111
22	— 19	— 17	2	— 7	— 9	— 20	— 16	— 2	— 1	— 3	0	0	182
23	— 2	— 3	— 5	— 2	2	5	6	6	3	1	— 1	— 4	81
24	1	— 1	— 3	— 6	4	4	0	— 1	1	2	— 3	— 4	54
25	6	6	1	— 2	4	8	10	6	4	4	0	0	79
26	6	38	45	54	— 7	— 27	— 38	— 34	— 1	10	9	— 6	362
27	— 2	— 17	— 10	— 1	2	7	9	7	1	— 1	— 2	— 3	186
28	— 1	— 3	— 9	— 10	— 4	— 2	4	3	— 1	0	— 1	11	77
29	— 2	— 1	— 4	— 2	0	— 4	— 4	0	— 1	0	— 1	— 1	43
30	— 3	— 10	— 7	— 8	— 6	0	2	2	1	9	8	5	84
31	— 11	— 4	— 5	— 1	6	6	— 2	— 3	— 10	— 8	5	4	155
Hourly Amount.	154	201	177	193	136	156	177	124	94	96	114	110	3174

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

MAY.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	1	0	1	2	1	4	6	6	0	— 5	— 6	— 3	—
2	1	1	3	2	2	2	4	— 9	— 5	— 5	— 3	— 3	—
3	— 1	— 2	— 2	— 2	— 1	— 1	— 3	3	1	— 2	— 3	1	—
4	0	— 1	— 1	— 2	— 5	— 2	1	— 2	— 5	— 4	— 3	— 1	—
5	— 1	1	— 3	— 3	— 4	- 8	— 6	— 2	— 6	— 5	2	5	—
6	4	— 1	— 2	1	— 2	— 3	— 3	4	1	0	2	— 1	—
7	— 1	— 1	— 1	— 1	— 4	— 6	- 11	— 4	0	— 5	0	15	—
8	0	2	5	3	3	5	4	— 3	0	— 1	— 8	— 7	—
9	3	5	6	7	7	5	4	0	— 4	— 7	— 1	— 5	—
10	2	3	4	4	3	11	4	— 6	— 5	— 8	— 4	— 2	—
11	1	— 1	— 1	0	1	— 1	— 2	— 2	1	1	— 1	— 3	—
12	— 4	— 3	— 3	— 1	1	0	— 2	— 4	— 6	— 4	— 2	5	—
13	— 9	— 6	— 3	— 2	0	0	0	11	8	— 1	— 3	1	—
14	0	0	- 2	- 5	— 1	— 2	— 2	2	1	0	0	— 2	—
15	1	0	0	2	2	2	0	0	— 2	— 2	— 1	— 3	—
16	2	2	3	4	4	5	4	— 4	— 6	— 9	— 6	— 5	—
17	1	4	3	2	3	3	6	6	8	6	4	— 5	—
18	4	3	2	1	0	— 2	— 1	1	5	4	2	— 5	—
19	1	— 1	0	0	0	2	7	13	15	9	— 6	— 12	—
20	2	— 1	0	3	0	3	1	3	6	4	— 1	— 5	—
21	2	2	3	2	2	2	— 2	— 8	— 7	1	3	3	—
22	4	4	4	4	2	1	— 2	— 17	— 18	— 4	— 2	5	—
23	— 4	— 1	— 3	— 1	0	— 4	— 4	1	— 2	2	2	1	—
24	0	2	0	1	3	2	— 2	— 6	— 3	— 1	— 2	— 1	—
25	— 2	0	1	2	2	2	1	5	3	— 2	5	9	-
28	— 2	— 1	1	1	0	— 1	0	2	5	5	10	15	—
27	0	— 6	— 5	— 14	— 10	— 2	— 2	2	8	18	9	0	—
28	— 2	— 2	- 1	— 1	0	1	1	— 5	— 1	3	1	— 3	—
29	— 1	1	0	1	1	— 1	4	1	2	5	— 1	— 5	—
30	1	1	— 1	0	— 1	— 1	— 1	— 3	— 2	— 2	2	— 1	—
31	— 2	— 3	— 5	— 9	— 10	— 10	— 3	14	9	11	13	13	—
Hourly Amount.	59	61	69	83	75	94	93	149	145	136	108	145	—

MAY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 3	— 1	1	2	0	0	— 1	0	2	3	2	2	52
2	4	3	7	6	1	- 2	— 3	— 2	— 1	— 2	— 1	— 2	74
3	0	1	9	7	— 1	- 4	— 4	— 1	2	2	3	0	56
4	6	15	8	5	— 4	— 7	8	0	1	— 1	— 1	0	83
5	9	3	7	1	— 5	— 2	4	— 2	— 5	0	— 6	2	92
6	0	— 3	— 3	0	1	- 2	— 4	— 2	— 3	— 2	— 2	1	47
7	18	20	21	8	— 2	- 4	— 6	— 5	3	3	— 1	2	142
8	— 6	— 7	— 5	— 3	— 4	— 2	— 3	- 1	0	2	3	2	79
9	- 5	— 6	- 2	- 1	— 5	— 2	— 4	- 3	0	1	3	3	89
10	— 2	— 1	0	6	— 2	— 2	0	2	- 2	1	1	1	76
11	- 3	2	5	3	5	5	0	2	1	— 1	1	— 2	45
12	12	16	6	- 3	— 6	— 4	— 2	— 2	— 2	— 2	1	— 2	93
13	1	2	— 1	— 7	— 6	- 2	- 1	— 1	6	5	3	1	80
14	- 2	6	6	10	3	- 2	— 5	— 2	- 2	1	4	— 2	62
15	— 2	0	0	— 3	- 1	2	1	2	2	3	3	3	37
16	0	1	2	2	— 4	— 2	— 3	— 1	1	2	2	1	75
17	— 15	— 15	— 13	— 9	— 1	— 1	— 2	— 1	2	2	3	3	118
18	— 8	— 5	— 3	1	— 1	— 1	— 2	— 1	1	0	2	1	56
19	— 11	— 4	— 5	— 5	— 2	2	0	1	0	— 3	— 2	1	102
20	— 4	— 3	— 3	— 3	— 1	0	— 1	0	- 3	0	1	1	49
21	— 3	— 1	— 6	— 1	— 1	1	3	4	3	2	2	4	68
22	7	6	— 1	7	9	10	7	1	— 4	— 3	— 6	— 3	131
23	3	2	— 1	— 1	0	0	— 1	0	0	1	1	2	37
24	1	2	3	4	— 1	— 1	1	2	— 1	— 1	— 2	— 3	45
25	— 2	— 15	— 10	— 4	1	— 2	- 4	— 3	— 2	— 3	0	0	80
26	7	— 15	— 24	— 18	20	19	24	15	— 4	— 12	— 10	0	211
27	2	8	9	3	0	— 1	— 3	— 2	— 1	- 1	0	— 2	108
28	0	— 1	0	3	2	1	— 2	- 1	2	1	2	— 4	40
29	5	— 7	— 4	— 1	2	0	1	0	2	1	1	0	47
30	0	— 1	— 2	— 1	0	2	0	— 1	1	— 4	— 4	— 4	36
31	4	— 4	1	0	— 4	— 3	— 3	3	6	6	— 2	— 1	139
Hourly Amount.	145	176	168	128	95	88	103	63	65	71	75	55	2449

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE. 1	3	3	1	2	1	2	4	— 1	— 2	0	— 3	— 5	—
2	9	7	5	5	2	3	— 6	— 6	— 4	1	— 3	— 1	—
3	2	1	0	0	0	0	0	2	— 1	— 1	— 3	— 5	—
4	2	1	1	1	6	5	1	— 2	— 2	1	0	— 1	—
5	0	0	1	— 1	— 1	1	8	9	7	2	— 4	— 2	—
6	4	1	0	0	— 1	0	— 4	— 10	— 10	— 7	0	6	—
7	2	0	0	— 2	— 1	— 1	3	5	5	4	0	— 10	—
8	3	0	1	2	1	— 1	0	— 3	— 1	— 5	— 6	— 2	—
9	1	— 1	— 2	— 4	— 3	— 4	1	0	3	1	1	— 2	—
10	— 3	— 3	— 1	— 2	— 1	0	— 3	0	— 4	— 2	0	3	—
11	— 1	— 2	— 2	— 2	— 2	0	— 4	— 4	— 5	0	— 2	1	—
12	3	0	2	0	1	1	— 5	— 6	— 6	— 7	— 4	— 5	—
13	3	1	0	1	1	1	— 2	— 6	— 8	— 7	2	3	—
14	— 4	— 3	— 4	— 5	— 6	— 4	— 11	— 8	— 1	6	6	4	—
15	— 4	— 1	2	3	3	0	3	1	— 3	— 4	— 4	1	—
16	2	3	2	2	— 1	0	5	3	— 2	— 3	5	4	—
17	1	— 2	— 1	1	1	0	4	8	6	6	0	3	—
18	5	3	2	2	2	0	6	7	2	— 1	— 3	— 6	—
19	0	1	— 2	0	0	0	— 1	3	— 2	1	2	5	—
20	4	2	1	0	2	1	— 2	1	5	3	0	— 1	—
21	0	0	0	— 1	— 2	— 1	0	5	6	3	0	1	—
22	— 10	— 1	— 2	— 1	— 1	— 5	— 4	— 1	14	4	4	0	—
23	— 1	— 2	0	— 1	— 1	— 1	2	4	2	5	2	— 2	—
24	— 2	1	0	— 1	— 2	— 1	— 5	— 5	— 3	0	5	7	—
25	— 3	— 5	— 1	— 3	— 4	— 2	— 1	— 3	— 1	3	2	1	—
26	0	— 1	— 1	— 1	1	2	— 2	— 7	— 4	— 5	2	5	—
27	— 3	— 2	— 1	— 1	1	— 1	0	1	0	2	5	4	—
28	3	2	2	3	3	2	1	0	— 1	— 2	— 2	— 4	—
29	— 8	1	— 3	4	1	1	12	12	7	6	2	0	—
30	2	1	3	2	3	3	2	2	1	— 2	— 2	— 3	—
Hourly Amount.	88	51	43	53	55	43	102	125	115	94	74	97	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JUNE. 1	— 9	— 2	— 4	— 6	— 6	0	3	1	2	3	1	5	69
2	— 6	— 9	— 2	3	0	0	2	— 1	2	0	3	4	81
3	2	— 1	— 2	— 3	— 2	2	1	— 1	0	— 1	0	1	31
4	1	— 2	— 2	— 4	— 1	0	— 2	0	— 2	— 1	2	1	41
5	1	— 6	— 5	— 4	— 2	1	— 1	0	1	7	3	4	71
6	10	3	1	— 2	— 1	1	— 1	0	1	0	2	2	67
7	— 12	— 15	— 2	1	0	4	4	1	2	6	6	5	91
8	— 6	— 5	— 4	5	3	2	0	0	1	1	2	3	57
9	2	3	5	7	13	1	— 2	— 3	0	0	— 1	— 2	62
10	3	— 1	— 2	4	2	3	4	— 1	— 2	— 4	0	3	51
11	4	7	6	4	3	1	— 1	0	4	1	1	1	58
12	— 3	0	1	— 1	2	2	4	2	2	0	1	3	61
13	— 2	4	2	— 3	— 1	2	8	4	3	1	0	— 1	66
14	1	6	2	7	10	6	9	9	— 3	— 3	— 9	— 9	136
15	2	3	— 5	— 5	— 1	— 1	0	0	0	0	2	1	49
16	— 2	— 7	— 3	— 2	— 1	— 5	— 1	1	— 1	0	— 1	— 1	57
17	3	0	— 2	— 8	— 10	— 6	— 6	— 3	— 1	2	1	4	79
18	— 3	— 3	— 4	— 4	— 6	— 1	— 1	0	2	3	1	0	67
19	2	1	3	3	— 1	— 5	— 5	— 1	— 3	— 1	1	1	44
20	— 1	1	— 6	— 3	— 1	0	0	— 5	— 1	— 4	— 5	— 2	51
21	0	1	11	3	5	5	0	1	— 3	0	— 4	— 5	57
22	2	0	6	— 1	— 1	1	— 3	1	— 3	— 3	— 3	— 7	78
23	— 6	4	2	1	1	4	— 2	— 1	— 2	0	0	— 3	49
24	6	6	3	3	2	3	0	— 2	— 1	— 2	— 2	— 2	64
25	5	7	3	7	2	— 1	— 2	— 1	0	0	0	— 1	58
26	6	4	0	0	— 1	— 1	0	1	3	1	— 1	— 2	51
27	2	1	4	2	— 6	— 8	— 3	— 1	0	0	1	0	49
28	— 4	— 3	— 1	0	— 1	— 1	— 2	0	1	0	0	— 2	40
29	0	— 1	— 5	— 3	— 2	— 4	— 2	— 1	— 1	— 3	— 1	— 1	81
30	2	— 1	— 1	— 5	— 2	— 2	1	0	2	2	0	0	44
Hourly Amount.	108	107	99	104	89	73	70	42	49	49	54	76	1860

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JUNE.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0	— 3	2	— 2	— 1	0	— 1	2	0	— 1	0	— 5	—
2	8	8	4	0	1	1	1	5	2	4	— 3	— 5	—
3	— 8	— 3	— 4	— 4	— 3	— 2	1	1	3	4	5	4	—
4	— 4	— 4	— 7	— 4	— 2	2	— 5	— 5	— 1	4	— 4	— 4	—
5	— 3	— 1	— 4	— 3	— 6	— 8	— 9	— 9	— 4	0	3	5	—
6	— 3	— 2	0	— 2	— 2	— 2	— 2	0	— 1	— 2	4	1	—
7	2	3	3	2	1	5	2	2	4	1	1	2	—
8	2	2	— 4	2	— 1	— 1	0	— 4	— 1	0	4	— 1	—
9	— 6	— 3	— 4	6	9	12	7	0	— 1	2	5	9	—
10	3	6	0	0	— 1	— 1	— 2	— 3	— 6	1	3	0	—
11	2	— 2	15	1	4	4	2	2	4	— 2	2	— 8	—
12	— 1	0	1	1	— 1	1	1	1	1	1	2	0	—
13	2	— 2	— 5	— 2	— 3	— 3	0	0	0	3	3	— 4	—
14	7	15	15	22	23	24	22	9	2	— 16	— 24	— 29	—
15	7	7	10	14	15	19	19	9	0	— 4	— 3	— 4	—
16	— 2	— 2	1	2	1	2	1	— 2	4	— 3	— 3	— 1	—
17	— 2	— 4	— 8	— 4	— 6	— 5	— 5	— 2	— 2	2	— 2	3	—
18	— 9	— 5	— 7	— 10	— 5	— 3	— 1	1	6	8	6	0	—
19	— 2	— 1	— 2	— 3	— 7	— 7	— 8	— 7	— 4	1	7	7	—
20	— 5	— 3	— 6	— 2	— 4	— 7	— 1	— 2	— 5	— 6	— 3	— 5	—
21	4	2	5	5	9	— 6	— 3	2	0	1	— 34	5	—
22	16	2	2	1	— 1	4	7	3	— 13	— 2	2	— 5	—
23	1	2	— 1	0	— 1	— 3	— 2	2	8	2	0	9	—
24	— 2	— 3	— 2	— 1	— 4	— 2	— 3	— 2	— 3	— 2	6	6	—
25	— 1	1	3	4	0	0	0	3	3	— 1	2	3	—
26	1	2	— 1	1	— 1	— 3	— 1	— 2	— 1	2	0	0	—
27	— 2	1	— 2	— 1	— 3	— 4	— 3	— 4	— 2	2	2	— 1	—
28	— 8	— 4	— 6	— 4	— 3	— 4	— 4	1	5	7	9	11	—
29	4	— 7	— 3	— 11	— 6	— 5	— 8	— 1	— 3	— 10	— 2	— 1	—
30	0	1	— 2	0	— 3	— 7	— 8	— 5	— 1	0	4	2	—
Hourly Amount.	117	101	129	114	127	147	129	91	90	94	148	140	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	0	— 6	— 1	— 8	— 2	— 5	— 10	— 8	7	2	4	6	76
2	— 2	0	4	3	4	4	— 3	— 1	— 4	6	— 6	— 10	89
3	— 1	1	4	9	4	— 1	— 1	3	0	— 1	1	1	69
4	4	7	8	8	5	4	0	0	— 1	— 2	— 3	— 2	90
5	7	10	9	8	3	— 2	— 1	0	2	2	1	2	102
6	— 3	— 5	1	1	— 1	— 2	— 1	2	— 2	2	— 2	2	45
7	— 4	— 8	— 9	— 4	— 2	— 1	1	3	3	2	2	2	69
8	— 3	— 2	1	5	2	1	2	4	4	2	— 4	— 3	55
9	— 3	— 3	— 2	— 17	— 28	— 9	8	1	— 1	3	1	4	144
10	2	2	1	0	— 3	— 7	0	0	1	2	2	3	49
11	— 6	— 10	— 6	— 1	— 1	0	3	3	1	4	5	2	90
12	— 3	— 3	— 1	— 5	— 3	0	1	3	2	0	0	— 4	36
13	2	— 2	0	7	9	11	4	2	9	13	12	15	113
14	— 19	— 16	— 16	— 8	— 17	— 21	— 31	— 44	— 40	— 40	— 5	— 2	467
15	— 6	— 2	0	0	2	3	5	6	3	1	1	7	147
16	4	4	— 1	0	2	5	2	— 3	1	— 1	— 4	— 6	57
17	6	7	2	4	5	5	0	2	2	5	— 1	— 3	87
18	0	— 1	3	2	6	5	5	5	4	2	2	4	100
19	9	9	3	2	3	5	5	2	0	1	— 3	0	98
20	2	5	3	4	0	— 3	— 3	5	— 1	— 2	2	4	83
21	5	21	17	0	— 7	— 4	— 3	1	3	— 10	— 14	— 8	169
22	— 1	— 2	— 5	3	4	— 2	2	— 5	— 4	— 4	— 1	— 3	94
23	3	— 4	— 8	— 7	1	— 3	— 1	0	3	5	5	3	74
24	3	3	— 2	— 2	— 1	— 1	1	2	4	2	4	0	61
25	9	— 12	— 5	— 1	0	1	1	1	— 1	0	1	3	56
26	0	1	— 5	0	1	— 1	3	1	1	— 1	— 1	1	31
27	3	6	5	3	2	3	1	1	— 2	— 4	— 6	— 6	69
28	1	1	3	0	6	10	7	10	8	7	8	— 6	133
29	1	— 5	— 5	— 1	3	6	2	— 1	0	1	0	1	87
30	8	3	— 1	2	1	1	1	2	0	1	— 1	— 1	55
Hourly Amount.	120	161	131	115	128	126	108	121	114	128	102	114	2895

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0,00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JUNE. 1	0	1	— 2	1	1	0	1	— 8	— 8	— 7	2	11	—
2	— 4	— 3	1	3	3	6	7	— 3	— 3	2	7	7	—
3	1	0	— 3	— 5	— 5	— 7	— 8	4	2	0	2	3	—
4	2	2	3	2	1	0	0	1	— 7	— 11	— 4	0	—
5	2	0	1	1	2	— 1	— 4	— 3	— 4	— 3	— 3	— 2	—
6	2	2	2	2	2	1	2	14	13	5	— 5	— 12	—
7	1	— 2	— 1	1	1	— 2	1	— 2	— 2	— 3	— 3	1	—
8	— 6	— 5	— 3	— 5	— 4	— 6	— 7	7	6	8	10	10	—
9	4	3	3	— 3	— 6	— 7	— 10	— 4	0	0	3	— 7	—
10	7	10	16	19	20	26	33	— 16	— 9	— 7	— 4	— 4	—
11	— 9	— 8	— 18	— 12	— 13	— 14	— 16	18	16	19	14	13	—
12	7	7	7	9	12	13	15	— 5	— 4	— 2	— 6	— 2	—
13	— 2	— 3	— 3	— 3	— 4	— 5	— 5	7	5	6	3	— 3	—
14	— 1	— 4	— 4	— 5	— 6	— 7	— 5	— 5	— 6	3	10	10	—
15	— 14	— 13	— 13	— 15	— 13	— 14	— 13	— 2	5	2	4	8	—
16	1	1	— 1	1	2	0	2	3	1	— 1	— 4	— 1	—
17	4	3	3	0	1	— 2	— 5	— 8	— 6	— 6	1	2	—
18	5	3	3	4	3	0	— 4	— 10	— 11	— 7	— 6	0	—
19	1	1	2	2	4	3	4	8	5	2	— 8	— 8	—
20	1	0	0	— 1	— 3	— 2	- 2	8	9	8	5	— 2	—
21	2	4	3	3	0	7	5	— 1	1	2	— 11	— 7	—
22	— 8	— 2	— 1	— 1	— 1	— 2	— 4	— 5	2	— 3	1	6	—
23	0	1	3	3	4	3	4	0	0	4	4	— 6	—
24	2	2	1	0	2	2	4	— 1	— 6	— 11	— 13	— 9	—
25	— 2	— 1	— 4	— 5	0	0	— 3	4	3	4	5	— 3	—
26	2	1	1	2	4	5	4	2	— 6	— 7	— 7	0	—
27	— 1	— 2	0	2	3	4	5	5	— 1	— 6	— 4	— 3	—
28	5	3	5	4	4	4	3	— 1	2	2	— 7	— 9	—
29	— 5	— 1	— 5	— 2	— 6	— 10	— 8	— 9	— 4	4	11	23	—
30	— 2	— 2	— 2	— 2	— 1	3	4	3	4	3	— 4	— 11	—
Hourly Amount.	103	90	114	118	131	156	188	167	151	148	171	183	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JUNE. 1	3	3	5	4	1	1	1	5	— 4	1	— 1	— 2	73
2	— 2	— 10	— 12	— 13	— 6	— 2	1	1	2	— 2	3	3	106
3	6	6	0	1	0	2	1	— 1	0	2	1	1	61
4	— 4	1	2	— 2	0	0	2	2	1	1	2	1	51
5	— 1	0	0	— 1	2	3	3	2	— 1	— 2	0	1	42
6	— 10	— 5	— 3	— 1	— 2	1	2	1	3	2	4	2	98
7	1	5	— 2	2	5	4	1	0	— 3	— 3	— 4	— 7	57
8	5	3	— 6	— 10	— 6	0	0	— 2	— 2	0	3	2	116
9	8	9	4	13	17	1	— 8	— 3	— 1	1	3	5	123
10	— 1	— 3	— 7	— 10	— 11	— 8	— 8	— 9	— 9	— 12	— 13	— 12	274
11	10	7	6	1	2	0	— 2	0	1	1	1	4	205
12	— 4	— 2	— 6	— 10	— 6	— 5	— 4	— 3	— 2	— 1	— 2	— 2	136
13	— 2	— 8	0	3	— 3	— 3	1	3	1	— 1	— 1	— 2	77
14	7	8	10	2	6	8	15	19	19	15	— 3	— 2	180
15	10	11	5	2	— 2	— 3	— 5	— 5	— 2	0	— 1	— 2	164
16	— 1	— 5	— 4	— 2	1	— 3	— 2	3	4	4	5	6	58
17	1	2	4	3	0	— 3	0	— 1	— 2	— 1	2	3	63
18	4	3	7	9	3	— 3	— 3	— 5	— 5	— 3	— 2	— 2	105
19	— 6	— 9	— 9	0	0	0	— 2	— 2	0	— 2	1	— 1	80
20	— 5	— 5	1	0	0	1	1	— 3	— 2	0	— 1	— 1	61
21	— 3	— 9	— 10	0	7	6	5	1	— 1	5	5	3	101
22	0	0	0	1	2	5	0	3	2	0	— 2	1	52
23	— 11	— 7	— 1	1	— 1	2	1	— 1	0	0	0	2	59
24	0	11	11	5	2	1	— 2	— 2	— 2	— 4	— 4	— 2	99
25	— 5	— 4	— 3	— 2	2	3	2	3	4	0	3	1	66
26	— 1	5	7	3	0	2	— 1	0	0	0	1	— 2	63
27	— 6	— 6	— 4	1	1	0	1	1	2	2	3	2	65
28	— 6	— 9	— 12	— 9	— 7	— 5	— 1	— 1	0	0	0	3	102
29	18	11	10	6	1	5	3	5	1	— 2	— 2	— 4	156
30	— 12	— 6	3	5	— 1	— 3	— 1	0	2	3	2	0	79
Hourly Amount.	153	173	154	122	97	83	79	87	78	70	75	81	2972

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0',1.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
JULY. 1	0	2	2	3	4	3	1	— 2	2	2	1	— 1	—
2	1	9	2	0	— 1	— 1	— 5	0	2	10	5	1	—
3	1	0	1	2	2	— 2	— 4	— 3	1	1	0	1	—
4	1	— 1	0	1	— 3	— 2	4	5	3	— 3	— 3	2	—
5	— 2	— 4	— 4	— 4	— 1	0	— 5	— 2	— 5	— 2	0	4	—
6	— 3	— 7	— 3	— 8	— 7	2	3	3	7	8	21	14	—
7	— 3	1	1	1	0	0	— 2	— 4	6	5	0	1	—
8	2	3	4	3	2	2	2	— 3	— 7	— 2	1	— 3	—
9	— 1	— 1	— 1	1	2	1	3	— 3	2	6	9	10	—
10	— 1	0	1	0	2	1	5	5	0	1	— 3	— 5	—
11	1	— 1	0	— 1	— 1	0	— 4	— 4	— 2	3	6	8	—
12	4	4	1	2	3	2	2	— 7	— 9	— 5	— 4	1	—
13	2	— 1	0	1	1	1	5	2	0	— 2	— 4	— 2	—
14	3	1	0	1	0	— 1	— 3	— 9	— 8	— 3	9	7	—
15	1	1	1	0	0	3	8	11	7	0	— 6	— 9	—
16	3	2	1	0	— 1	— 3	— 7	— 7	— 4	— 4	— 6	— 2	—
17	0	— 1	— 2	— 3	— 4	— 7	— 3	— 2	— 2	— 2	3	— 2	—
18	— 3	— 3	2	— 2	2	— 3	— 2	— 2	— 2	— 2	— 2	0	—
19	— 3	— 2	— 3	— 3	— 3	— 2	— 5	— 2	— 4	— 1	7	6	—
20	— 5	— 2	0	— 1	— 1	— 1	3	4	5	3	0	— 3	—
21	— 4	— 3	0	— 1	0	— 1	7	7	10	8	5	0	—
22	2	1	0	— 1	0	1	4	0	— 4	— 5	4	5	—
23	— 2	0	— 1	— 1	— 2	— 4	— 5	0	— 5	— 1	— 1	— 1	—
24	— 2	0	— 2	0	0	— 2	3	3	7	0	— 1	— 2	—
25	2	2	2	4	3	2	— 3	— 10	— 11	— 4	— 4	— 2	—
26	0	1	0	2	1	5	9	12	2	— 1	— 8	— 9	—
27	2	2	1	1	1	4	— 5	0	— 1	— 1	— 8	— 6	—
28	0	— 2	0	1	0	0	9	6	4	0	0	— 3	—
29	1	2	0	1	— 1	— 4	— 6	0	— 1	0	— 3	0	—
30	— 1	1	1	0	3	8	0	0	— 1	0	— 9	— 8	—
31	— 1	— 1	— 1	— 1	— 1	— 1	— 2	2	5	— 4	— 6	— 5	—
Hourly Amount.	57	61	37	50	52	69	129	120	129	89	139	123	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
JULY. 1	— 4	— 1	— 6	— 2	— 9	— 4	— 3	— 2	— 1	0	0	5	60
2	— 4	— 5	9	2	4	— 3	— 3	— 4	— 5	— 1	— 1	— 1	79
3	— 1	1	7	2	— 1	— 1	2	— 2	— 2	— 1	— 1	— 3	42
4	0	2	3	2	3	— 2	— 1	1	1	— 1	0	— 2	46
5	10	13	4	— 3	0	— 2	— 1	0	— 1	— 2	— 3	— 4	76
6	13	1	— 5	— 9	— 8	0	— 3	— 2	— 3	— 3	— 4	— 1	138
7	3	2	1	0	1	2	— 2	— 1	— 2	0	0	0	38
8	— 8	— 2	0	0	— 2	1	2	3	2	1	1	1	57
9	8	1	— 6	— 4	— 5	— 6	— 4	— 6	— 4	— 4	— 2	— 2	92
10	— 6	— 4	— 5	5	3	0	1	0	— 1	— 1	— 1	1	52
11	5	9	7	— 2	— 4	— 8	— 5	— 2	— 4	— 4	1	6	88
12	— 3	— 1	— 2	— 2	0	0	2	2	2	2	5	0	65
13	2	1	— 4	— 3	— 1	0	1	0	0	— 1	4	3	41
14	10	6	— 1	— 6	— 2	— 1	— 3	— 4	— 1	1	1	1	82
15	— 9	— 3	— 7	— 7	— 3	0	3	5	4	3	6	5	102
16	4	7	8	3	— 2	0	— 1	0	0	2	3	1	71
17	1	— 3	19	11	— 6	8	1	5	— 5	— 3	— 1	0	94
18	4	3	2	3	0	3	2	— 3	5	1	— 1	— 6	58
19	3	5	10	4	1	1	0	2	0	— 3	— 3	— 7	80
20	— 5	— 3	— 1	0	1	1	3	— 4	— 1	— 1	— 3	— 2	53
21	— 5	— 2	— 4	— 5	— 2	— 1	— 3	— 2	— 1	0	0	— 1	72
22	2	0	— 3	— 2	0	1	0	0	— 1	0	— 2	0	38
23	10	5	0	1	4	2	2	3	1	1	— 2	— 3	57
24	— 1	— 6	— 4	3	1	0	— 2	— 3	4	5	4	3	58
25	— 1	0	— 7	— 2	3	3	2	4	2	— 1	— 2	3	79
26	— 4	— 3	— 7	— 5	— 2	— 1	4	3	3	2	2	2	88
27	— 5	— 7	— 7	4	6	4	4	4	5	4	4	— 1	87
28	— 9	— 10	— 5	— 3	0	0	0	1	3	3	— 2	2	63
29	0	— 1	3	8	8	— 2	— 1	0	1	1	— 2	1	47
30	— 7	— 11	— 9	1	7	5	6	2	2	1	1	2	86
31	0	5	0	8	6	3	— 1	1	0	— 2	2	— 3	61
Hourly Amount	147	123	156	112	93	65	68	71	67	55	64	72	2150

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	4	— 1	— 2	0	— 3	— 4	— 3	— 5	— 8	3	— 7	— 3	—
2	— 16	11	4	— 3	— 5	— 3	— 2	4	9	3	4	3	—
3	— 4	— 5	— 4	— 3	— 3	— 2	0	1	— 1	5	2	1	—
4	— 1	— 1	0	— 1	0	4	— 1	— 3	— 6	— 4	— 2	2	—
5	— 1	— 1	— 3	— 4	— 2	— 5	— 6	— 4	1	3	4	12	—
6	— 4	— 2	— 14	1	1	0	1	5	0	4	— 5	— 15	—
7	— 5	— 1	— 1	0	5	6	14	16	5	1	1	— 10	—
8	4	1	1	3	1	2	1	— 1	0	8	3	4	—
9	1	— 1	2	0	1	0	0	5	2	— 1	0	— 2	—
10	2	— 1	0	— 1	— 3	— 2	— 5	— 4	1	7	4	2	—
11	— 4	— 4	— 2	— 3	— 2	0	— 3	— 3	— 2	0	4	6	—
12	— 15	— 17	— 8	0	— 1	— 3	— 3	— 3	0	1	4	3	—
13	1	2	4	2	0	— 2	1	0	3	5	2	4	—
14	0	0	— 3	— 5	— 2	— 3	2	5	7	1	— 1	— 3	—
15	— 2	— 5	8	4	3	0	— 2	5	9	10	6	— 4	—
16	2	— 2	— 3	— 5	— 2	— 4	— 3	— 2	— 1	0	— 2	3	—
17	8	2	0	1	1	— 1	— 5	— 11	— 15	— 25	— 24	— 14	—
18	5	9	10	11	8	1	— 2	— 9	— 9	— 3	5	11	—
19	5	5	6	4	1	2	— 1	1	3	— 6	3	2	—
20	2	1	0	0	2	— 4	0	1	3	5	2	3	—
21	6	4	0	0	— 3	— 2	— 3	— 2	— 2	3	6	3	—
22	— 1	— 2	— 2	— 4	— 2	— 3	— 2	— 5	— 3	— 3	3	6	—
23	0	0	— 1	1	1	2	1	— 3	— 4	0	— 2	0	—
24	2	4	1	— 3	— 3	2	13	5	3	— 3	— 6	0	—
25	— 2	— 4	— 3	— 3	— 1	— 2	— 4	— 4	— 9	— 3	2	9	—
26	— 2	1	1	— 1	1	1	— 6	— 9	— 9	— 5	— 5	3	—
27	— 1	3	1	1	0	5	2	4	7	6	— 2	— 5	—
28	— 1	0	— 4	— 1	2	1	0	3	2	1	— 3	— 4	—
29	7	4	3	7	7	10	8	6	6	— 10	— 9	— 13	—
30	3	0	4	2	1	0	4	7	7	— 1	— 5	— 7	—
31	5	4	3	3	3	7	4	— 3	3	1	16	2	—
Hourly Amount.	116	98	98	77	70	83	102	139	140	131	144	159	—

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	10	21	2	— 8	2	— 1	3	4	2	0	— 2	— 12	110
2	— 9	— 9	1	9	4	0	6	2	4	— 3	— 2	3	119
3	— 13	5	11	4	— 1	0	— 8	2	2	3	0	3	83
4	2	4	1	— 4	— 2	1	2	0	3	1	— 3	0	48
5	3	— 8	0	3	1	6	— 2	— 4	2	2	1	— 2	80
6	— 7	2	12	19	13	— 5	1	1	— 2	— 4	0	— 8	126
7	— 15	— 25	— 13	— 2	— 1	— 4	— 2	0	1	6	9	8	151
8	1	— 10	— 7	— 1	3	8	1	— 5	— 1	— 2	— 2	2	72
9	— 3	— 3	0	0	— 3	— 4	1	2	3	3	2	2	41
10	3	2	5	2	3	3	2	1	0	— 2	— 4	— 3	62
11	7	1	0	2	4	6	11	8	9	6	8	— 3	98
12	— 8	— 11	— 2	— 2	— 1	5	2	1	— 4	— 6	— 2	3	105
13	— 2	— 3	1	0	— 1	1	6	4	— 1	— 4	— 6	— 3	58
14	— 7	— 5	— 3	2	— 2	— 2	0	5	3	1	4	4	70
15	— 9	— 10	— 5	1	0	2	— 1	— 1	— 1	4	2	— 3	97
16	2	0	4	4	3	7	8	10	12	9	12	12	112
17	57	56	6	— 13	6	— 35	— 28	— 36	— 28	1	— 5	— 4	382
18	5	— 3	3	— 5	4	— 5	— 5	0	3	4	— 5	5	130
19	— 5	— 5	— 7	— 5	— 5	1	— 1	0	— 5	— 7	— 2	2	84
20	— 3	0	0	— 2	— 3	— 1	— 1	6	2	1	2	9	53
21	4	2	3	— 1	— 3	0	— 1	— 1	— 1	— 3	1	— 3	57
22	3	— 1	3	3	2	3	0	— 1	0	1	1	0	54
23	— 1	— 3	— 6	— 4	— 3	0	0	0	0	— 4	— 5	— 5	46
24	3	7	1	13	5	4	3	4	— 4	— 5	— 3	— 2	99
25	5	6	1	4	4	7	5	4	2	— 1	— 1	— 10	96
26	10	3	10	1	— 3	0	— 1	1	1	— 1	— 4	— 2	81
27	— 7	— 5	— 2	— 5	— 4	— 1	— 3	1	2	1	— 1	— 2	71
28	— 4	— 3	— 3	0	— 4	— 1	— 1	— 1	0	— 1	4	6	50
29	0	4	2	— 4	— 6	2	4	— 1	— 8	— 9	— 1	— 2	133
30	— 4	0	— 10	— 4	— 4	5	— 4	— 3	5	2	2	2	86
31	— 9	— 11	— 7	— 5	— 6	0	2	— 1	1	4	1	2	103
Hourly Amount.	221	228	131	132	106	120	115	110	112	101	97	127	2957

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

JULY.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 5	— 5	— 5	— 6	— 6	— 5	— 8	— 1	— 1	— 10	11	18	—
2	11	— 6	— 3	7	11	6	4	7	9	10	5	9	—
3	2	4	0	— 4	— 4	— 4	— 2	— 2	1	— 4	4	— 2	—
4	4	7	8	19	8	9	12	3	5	0	— 11	— 11	—
5	4	6	5	5	3	5	7	12	13	— 3	— 12	— 18	—
6	13	12	17	6	6	8	8	— 22	— 9	— 5	— 8	8	—
7	— 1	— 2	— 1	— 3	— 5	— 7	— 15	— 14	— 9	— 9	— 2	7	—
8	— 4	— 2	0	— 3	0	— 3	— 2	3	— 2	— 7	2	8	—
9	2	5	5	8	8	11	14	6	— 22	— 19	— 12	— 4	—
10	— 5	— 4	— 3	— 1	0	— 1	— 3	6	12	12	9	— 2	—
11	— 4	— 8	— 8	— 7	— 8	— 10	— 9	6	— 7	— 11	— 8	4	—
12	5	6	2	— 7	— 2	— 1	— 1	1	2	5	2	— 7	—
13	6	5	7	9	8	11	14	2	— 4	— 12	— 18	— 3	—
14	— 3	— 5	— 6	— 3	— 3	— 3	— 5	5	— 7	— 14	— 12	2	—
15	— 8	— 8	— 18	— 15	— 14	— 14	— 13	— 3	10	18	20	19	—
16	0	3	4	2	0	1	— 1	9	1	4	9	2	—
17	2	5	5	1	0	1	1	— 7	— 3	3	2	16	—
18	— 8	— 9	— 7	— 7	— 3	2	4	1	— 6	— 2	— 6	— 13	—
19	0	0	1	1	1	0	3	— 8	— 3	— 4	— 10	— 3	—
20	0	1	0	— 1	— 1	— 1	— 6	— 13	— 5	— 4	4	0	—
21	— 5	— 2	1	3	3	— 1	0	— 4	2	3	3	5	—
22	1	1	2	2	1	2	— 1	— 4	— 11	— 11	— 13	0	—
23	0	2	3	3	4	6	5	2	6	4	0	— 13	—
24	1	— 3	— 1	1	2	— 2	— 9	— 7	— 5	1	— 4	— 1	—
25	— 2	0	0	0	0	1	6	13	11	5	3	— 8	—
26	1	— 2	— 4	— 2	0	— 1	2	5	13	16	15	— 3	—
27	0	— 2	— 1	0	2	1	3	— 1	2	9	9	— 4	—
28	0	0	0	— 3	— 5	— 3	— 4	0	4	2	— 1	0	—
29	0	— 1	1	— 4	— 2	— 3	— 3	— 3	— 7	— 2	2	3	—
30	1	— 1	— 1	— 1	0	— 1	— 2	— 5	— 1	8	6	— 3	—
31	— 2	— 1	— 2	— 2	— 2	— 6	— 3	8	7	11	1	— 18	—
Hourly Amount.	100	118	121	136	112	130	170	183	200	228	224	214	—

JULY.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	10	— 7	13	16	3	3	— 2	— 3	— 4	— 2	1	5	150
2	14	6	— 24	— 20	— 10	3	— 3	0	2	3	2	1	176
3	12	— 9	— 13	— 7	2	— 3	— 2	— 1	0	— 1	3	5	91
4	— 8	— 6	— 9	— 2	— 4	— 6	— 5	— 4	— 7	— 3	0	2	153
5	— 13	— 3	1	— 7	— 4	— 7	— 2	1	1	1	5	6	144
6	2	6	1	— 7	— 8	0	1	— 1	— 1	3	2	2	156
7	17	23	15	3	2	4	2	1	— 2	— 6	— 8	— 10	168
8	3	— 4	— 5	1	2	0	3	4	3	4	4	4	73
9	6	9	3	2	4	3	— 3	— 5	— 9	— 10	— 11	— 9	190
10	— 9	— 10	— 10	— 8	1	2	2	3	4	3	3	1	114
11	20	20	10	10	4	0	— 4	— 2	— 3	— 5	— 8	— 2	178
12	1	2	0	— 3	— 4	— 3	— 6	— 4	1	2	5	4	76
13	6	6	0	— 1	— 7	— 7	— 4	— 3	— 2	— 1	— 2	— 7	145
14	14	16	19	13	5	3	3	— 1	— 2	— 3	— 6	— 7	160
15	15	10	6	— 1	— 4	— 7	— 8	— 5	— 4	— 5	— 3	1	229
16	— 13	— 18	— 14	— 7	1	— 5	— 7	— 5	— 7	— 3	— 2	6	124
17	— 24	— 11	34	50	11	16	14	2	8	— 13	— 11	— 8	248
18	— 8	— 4	— 4	3	— 4	0	1	4	— 2	— 1	5	0	104
19	7	7	6	3	4	3	4	0	5	3	— 2	— 3	81
20	3	8	5	5	1	2	6	— 2	— 3	0	— 1	— 5	77
21	— 9	— 5	— 6	— 4	— 1	0	1	1	0	2	2	2	65
22	12	16	12	3	4	— 2	0	0	— 2	— 2	— 3	— 1	106
23	— 13	— 3	— 2	— 2	— 2	— 2	— 1	0	— 1	3	3	1	81
24	1	7	1	— 6	1	1	1	2	4	4	2	0	67
25	— 12	— 12	— 13	— 11	— 5	— 6	— 2	0	4	4	2	4	124
26	— 20	— 14	— 9	0	6	3	3	2	3	4	3	3	134
27	— 10	— 13	— 12	— 7	— 1	0	2	2	0	1	3	2	87
28	1	1	1	1	2	3	4	4	5	5	2	0	51
29	— 2	— 4	— 5	— 4	0	2	— 1	4	6	6	1	— 1	67
30	— 2	— 9	— 3	— 3	0	— 2	4	5	2	2	2	3	67
31	— 11	— 8	— 3	— 7	3	2	1	4	5	4	6	4	121
Hourly Amount.	298	277	259	217	110	100	102	75	102	109	113	109	3807

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST. 1	4	4	1	3	2	— 1	— 2	2	3	— 4	— 6	— 7	—
2	0	1	2	5	1	2	4	3	1	2	— 2	— 4	—
3	1	1	1	1	0	— 2	— 2	1	1	— 2	0	— 1	—
4	1	— 1	— 2	— 2	— 3	— 2	6	10	6	4	1	— 6	—
5	1	0	— 1	— 1	— 2	— 4	3	0	1	0	0	2	—
6	— 2	— 2	0	0	— 1	— 3	— 3	— 6	— 9	— 5	— 1	7	—
7	0	0	0	0	— 1	— 2	1	0	0	0	0	6	—
8	3	2	3	1	2	3	5	0	— 2	— 2	0	2	—
9	9	6	5	5	3	3	1	— 11	— 8	1	0	3	—
10	5	5	6	6	4	0	— 9	— 9	— 8	— 8	0	2	—
11	5	5	4	5	2	0	— 5	— 3	— 4	1	— 4	— 9	—
12	2	3	2	1	1	0	4	4	0	10	— 6	— 8	—
13	1	1	1	0	— 1	— 3	— 5	2	— 2	1	— 5	— 6	—
14	— 6	— 5	2	— 9	— 5	1	2	1	1	5	6	4	—
15	0	— 1	0	— 2	— 3	— 1	3	2	1	— 2	0	— 4	—
16	— 5	— 3	— 8	— 3	— 4	— 2	— 3	2	4	3	4	1	—
17	— 3	0	0	— 4	— 2	— 1	2	2	1	1	2	— 1	—
18	0	— 3	— 3	— 6	— 4	— 4	— 7	— 2	— 2	— 3	6	11	—
19	0	— 2	— 3	— 1	— 1	— 2	— 3	— 4	— 5	— 10	— 10	— 3	—
20	0	— 3	— 2	— 1	— 3	— 4	— 13	— 4	3	2	4	2	—
21	— 8	— 4	— 4	— 2	1	— 1	— 2	— 3	3	2	5	4	—
22	— 3	— 2	— 1	0	2	1	— 3	— 2	— 3	— 7	— 4	4	—
23	2	5	3	4	2	2	0	— 4	0	— 3	— 1	— 1	—
24	4	1	3	3	1	1	— 5	— 3	— 4	— 9	— 7	— 2	—
25	— 1	1	3	3	6	5	7	5	6	0	— 1	— 5	—
26	1	— 1	— 3	— 3	— 6	— 2	0	0	1	— 1	4	6	—
27	— 4	— 4	— 3	— 6	— 2	3	3	— 2	2	4	4	1	—
28	— 6	— 3	— 4	— 3	7	3	8	6	7	6	4	9	—
29	— 2	— 4	— 2	2	2	3	14	6	6	7	1	0	—
30	2	1	0	0	— 2	4	— 2	5	2	1	3	— 8	—
31	— 1	— 3	1	1	1	2	— 1	2	1	0	0	— 2	—
Hourly Amount.	82	77	73	83	77	67	128	106	97	106	91	131	—

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
AUGUST. 1	— 5	— 1	0	— 1	0	— 3	— 1	0	1	0	2	3	56
2	— 8	— 7	— 5	— 3	— 1	1	3	1	— 2	1	0	3	62
3	1	0	3	0	0	1	— 2	— 1	— 1	— 1	— 2	— 2	27
4	— 6	0	5	— 2	— 4	— 2	— 1	— 1	0	0	1	1	67
5	5	9	6	4	— 1	— 2	— 5	— 3	— 4	1	0	— 1	56
6	10	13	6	1	— 3	— 2	— 2	— 3	— 3	0	1	— 1	84
7	8	7	4	0	— 5	— 5	— 4	— 6	— 5	— 5	— 4	1	64
8	8	— 2	— 4	— 6	— 2	— 1	— 3	— 5	— 2	0	2	1	61
9	— 2	2	— 2	— 4	— 3	— 6	— 4	— 2	0	6	6	3	95
10	— 1	1	— 2	— 2	0	1	— 3	— 1	0	2	4	4	83
11	— 8	— 5	— 4	— 3	2	2	3	2	2	— 1	0	2	81
12	— 6	— 4	— 3	— 3	— 1	1	2	2	3	2	3	0	71
13	10	2	— 5	4	3	1	1	0	0	3	— 2	— 2	61
14	1	3	— 2	— 1	3	1	1	— 1	— 1	— 1	— 1	— 1	64
15	— 1	0	— 2	2	2	3	1	4	0	1	1	— 2	38
16	— 4	0	4	3	1	1	1	— 2	— 1	— 2	— 1	0	62
17	6	5	1	— 1	0	2	— 3	— 3	— 5	— 2	0	— 1	48
18	12	12	10	10	3	— 3	— 5	— 5	— 2	— 2	— 1	— 1	117
19	8	10	5	1	1	1	0	1	2	0	1	1	75
20	— 4	— 2	5	3	4	6	9	7	11	— 2	— 6	— 14	114
21	7	0	— 1	— 2	— 1	1	4	1	— 1	— 2	— 1	1	61
22	1	— 2	— 3	— 2	— 1	3	3	4	3	— 1	— 2	2	59
23	— 2	— 9	— 7	— 3	1	0	1	3	0	3	4	3	63
24	0	3	4	— 2	— 2	0	0	2	1	— 1	— 1	0	59
25	— 9	— 8	— 7	— 3	— 4	— 4	6	6	4	1	3	2	94
26	3	2	6	0	2	2	5	3	5	— 2	— 12	— 3	73
27	— 1	— 5	— 1	— 1	7	3	0	— 2	— 4	— 1	— 3	— 5	71
28	— 6	— 9	— 5	— 4	— 1	— 1	— 6	— 3	— 2	— 3	— 3	— 3	112
29	— 6	— 4	— 7	4	1	— 5	— 3	— 1	— 1	1	0	1	83
30	— 9	— 9	— 3	5	0	4	1	— 1	0	1	1	1	65
31	— 4	— 4	0	1	2	0	1	2	4	4	7	5	49
Hourly Amount.	162	140	122	81	61	68	84	72	70	52	75	70	2175

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.		1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST.	1	— 5	— 7	— 5	6	0	4	1	— 8	0	6	8	7	—
	2	— 7	3	1	— 5	— 6	— 7	3	5	5	4	1	— 1	—
	3	7	8	0	— 2	0	2	— 1	— 8	— 1	— 3	— 1	— 2	—
	4	— 1	— 2	— 2	— 4	— 2	— 2	— 1	— 5	— 2	3	2	— 2	—
	5	— 1	— 2	0	— 3	— 2	— 5	— 6	4	4	0	— 2	— 2	—
	6	2	0	— 1	— 3	— 3	— 3	— 2	3	— 1	0	1	0	—
	7	1	0	— 2	— 2	— 1	— 1	0	— 2	— 2	1	2	3	—
	8	1	— 2	— 1	3	3	0	— 3	— 2	— 4	1	4	7	—
	9	— 9	— 2	— 2	6	6	7	2	13	18	7	— 9	— 13	—
	10	— 1	— 5	— 6	— 5	1	— 1	2	— 1	— 4	— 3	— 4	1	—
	11	1	1	2	1	6	3	8	— 4	— 1	— 11	— 12	1	—
	12	0	0	3	5	4	3	2	— 9	— 5	1	4	3	—
	13	4	3	5	6	9	13	17	17	0	— 10	0	— 2	—
	14	3	1	8	10	— 1	— 10	— 2	— 9	— 5	— 3	7	0	—
	15	2	2	2	1	— 3	— 5	— 8	— 8	— 7	0	9	5	—
	16	— 8	7	1	— 2	2	2	— 1	— 3	3	6	3	— 1	—
	17	— 2	— 2	— 6	— 12	— 11	— 3	— 6	0	4	6	5	4	—
	18	3	0	— 2	— 2	— 4	— 3	— 2	— 2	— 1	— 4	— 2	1	—
	19	0	2	— 4	— 4	— 2	— 4	— 5	— 1	— 3	— 3	1	4	—
	20	6	6	4	1	7	3	0	— 10	— 9	— 10	— 11	— 4	—
	21	5	7	2	11	5	11	6	8	— 2	0	— 3	0	—
	22	— 8	— 10	— 1	— 1	0	— 1	— 1	1	3	2	— 2	— 4	—
	23	— 1	— 4	3	— 2	— 3	— 4	— 2	1	4	0	— 4	— 3	—
	24	— 5	— 9	1	— 2	— 1	— 4	— 4	— 2	5	3	3	— 4	—
	25	2	— 2	— 1	0	— 4	— 2	— 5	— 3	— 7	— 4	— 7	— 5	—
	26	4	13	8	— 1	0	6	— 3	— 1	— 6	1	— 2	— 3	—
	27	— 3	0	5	11	5	— 2	1	— 2	— 7	— 8	— 1	3	—
	28	9	— 3	— 2	— 4	10	6	6	8	10	9	1	— 6	—
	29	3	1	— 3	4	— 2	— 1	1	8	5	3	0	0	—
	30	0	— 3	— 1	— 3	— 7	0	1	2	3	— 2	— 3	3	—
	31	3	0	— 5	— 4	— 4	— 7	— 6	— 3	— 4	— 1	1	1	—
Hourly Amount.		107	107	89	126	114	125	108	153	135	115	115	95	—

Mean Batavia Time.		1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
AUGUST.	1	— 3	— 7	— 11	— 9	— 1	4	6	7	5	11	2	— 8	131
	2	— 14	— 1	3	— 4	— 1	2	— 1	— 2	1	— 4	2	2	85
	3	11	8	2	1	1	— 1	1	1	0	— 2	— 4	— 6	73
	4	0	3	— 1	1	1	1	4	3	1	3	— 1	0	47
	5	3	1	0	— 2	0	3	5	4	5	2	5	0	61
	6	0	— 2	— 3	— 4	— 1	0	3	4	5	3	— 2	— 1	47
	7	1	0	1	— 3	0	1	1	3	— 3	— 2	— 1	— 3	36
	8	— 2	2	2	9	0	— 11	— 4	— 4	— 1	1	— 4	— 2	73
	9	— 12	— 9	— 7	— 5	1	6	7	8	9	7	2	3	170
	10	— 3	— 2	5	— 2	6	6	7	6	9	3	4	4	91
	11	11	3	— 8	— 4	— 7	— 7	— 4	— 7	— 6	3	0	— 3	114
	12	2	2	8	9	— 1	— 6	— 6	— 7	0	— 2	— 4	1	87
	13	— 25	— 25	0	6	7	4	— 8	5	— 5	— 12	4	4	191
	14	6	2	— 4	— 4	— 5	— 3	2	1	3	5	4	3	101
	15	9	9	7	4	10	0	— 16	— 17	1	0	2	1	128
	16	— 2	0	— 13	4	5	1	— 1	1	— 1	1	— 2	— 2	72
	17	4	4	2	6	2	— 3	— 4	— 4	11	10	6	5	122
	18	6	5	— 2	— 1	— 1	0	3	3	0	0	— 3	— 2	52
	19	10	0	— 5	— 7	— 2	2	7	8	10	8	7	2	101
	20	9	10	13	9	9	— 4	— 16	— 25	— 52	— 24	— 19	16	277
	21	8	6	8	11	9	1	— 4	— 9	0	4	1	— 4	125
	22	— 1	— 2	— 4	— 2	2	4	3	1	3	6	2	3	67
	23	5	5	4	5	7	11	8	— 3	— 1	— 6	— 11	— 10	107
	24	— 2	— 2	4	2	3	2	1	2	3	2	1	— 2	69
	25	4	10	— 1	0	4	15	9	3	— 21	— 18	— 4	3	134
	26	— 2	9	25	10	— 13	— 21	— 17	— 4	— 11	0	26	2	188
	27	— 7	— 6	— 7	— 11	— 11	4	2	2	22	— 4	— 8	— 7	139
	28	— 17	— 27	— 8	— 1	2	5	6	6	— 1	8	2	4	161
	29	— 8	— 5	— 1	— 6	— 9	1	6	5	7	— 3	— 7	5	94
	30	1	2	— 5	— 9	— 11	— 6	5	11	12	7	9	1	107
	31	5	4	0	4	— 1	— 3	1	4	4	4	— 4	0	73
Hourly Amount.		193	173	164	155	133	138	168	170	213	165	153	109	3323

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
AUGUST. 1	9	10	8	0	5	5	5	— 3	1	— 4	— 10	— 10	—
2	7	2	0	3	1	— 1	— 9	— 3	0	1	9	9	—
3	3	2	8	9	7	5	4	— 1	— 8	— 7	— 10	— 4	—
4	4	5	5	6	5	1	— 6	— 12	— 6	2	1	2	—
5	4	4	4	5	7	7	6	4	3	3	1	— 11	—
6	3	5	7	9	8	11	13	9	7	6	— 12	— 22	—
7	2	3	4	5	5	5	6	— 1	0	— 1	— 1	— 8	—
8	— 7	— 7	— 7	— 11	— 9	— 7	— 5	7	5	7	4	6	—
9	2	— 2	0	— 1	1	3	11	— 8	— 16	— 12	6	2	—
10	— 1	1	3	3	1	2	10	12	10	1	— 7	— 4	—
11	— 5	— 3	— 3	— 3	— 5	0	1	17	13	13	13	2	—
12	— 2	— 4	— 6	— 8	— 5	— 6	— 5	— 2	2	3	14	8	—
13	— 4	— 3	— 5	— 5	— 6	— 7	— 14	— 8	— 3	4	8	6	—
14	— 2	— 1	— 3	— 6	0	3	— 3	— 4	— 9	— 10	— 4	8	—
15	1	3	3	4	5	7	5	— 3	0	— 2	— 4	— 1	—
16	4	— 5	— 3	— 4	— 6	— 8	— 10	— 3	— 3	— 3	11	17	—
17	6	6	10	11	12	9	9	— 11	— 14	— 12	— 8	— 1	—
18	2	4	6	5	5	5	7	— 2	0	— 4	— 11	— 6	—
19	1	1	4	4	2	3	5	14	16	14	1	— 14	—
20	2	3	6	7	4	8	5	1	— 2	— 7	— 5	— 5	—
21	— 3	— 2	2	0	1	1	3	— 6	— 3	— 3	— 10	— 9	—
22	1	1	— 6	— 7	— 8	— 8	— 6	11	— 1	— 5	— 3	4	—
23	— 2	— 2	— 5	— 2	— 2	— 5	— 3	— 5	— 7	2	11	8	—
24	— 4	— 1	— 7	— 5	— 3	— 2	3	13	4	4	— 2	0	—
25	— 1	1	2	1	3	— 1	3	— 2	7	7	3	1	—
26	— 11	— 20	— 16	— 7	— 7	— 15	— 9	— 2	8	8	7	14	—
27	1	— 3	— 5	— 9	— 2	0	0	— 4	— 5	— 4	— 6	— 4	—
28	— 6	1	1	— 1	— 13	— 9	— 8	— 3	4	5	2	1	—
29	— 4	— 3	— 4	— 6	— 6	— 6	— 9	— 11	— 2	3	8	10	—
30	2	1	— 2	0	— 2	— 5	— 3	— 5	— 8	— 9	— 1	3	—
31	2	4	5	3	1	1	— 3	1	— 3	— 3	— 6	— 4	—
Hourly Amount.	108	113	150	150	147	156	189	188	170	169	199	204	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
AUGUST. 1	— 2	— 3	— 6	— 9	— 9	— 6	— 4	— 3	0	— 2	3	8	125
2	6	— 8	— 6	— 1	— 2	— 3	— 1	0	— 1	2	1	3	79
3	— 9	— 2	— 2	— 1	— 1	— 3	— 2	— 3	— 1	0	1	5	98
4	— 1	— 4	— 3	2	3	1	— 2	— 3	— 2	— 2	1	0	79
5	— 23	— 14	— 3	2	1	— 1	— 4	— 4	— 3	— 2	0	4	120
6	— 19	— 8	— 1	1	— 1	— 1	— 2	— 4	— 5	— 2	0	1	157
7	— 6	— 6	— 2	1	5	3	1	— 2	— 1	— 3	— 6	— 9	86
8	12	13	16	14	11	7	0	— 1	— 4	— 6	— 3	— 3	172
9	— 2	— 3	— 3	1	1	— 1	1	0	— 2	— 2	0	— 3	83
10	— 4	— 10	— 15	— 9	— 6	1	1	2	2	5	0	— 3	113
11	— 16	— 15	— 4	— 2	0	3	3	5	4	1	— 1	1	133
12	8	6	— 4	— 4	1	3	5	6	3	3	3	— 1	112
13	7	9	— 2	— 12	— 10	— 3	5	2	7	10	3	— 1	144
14	13	13	2	0	0	0	— 1	0	0	— 1	— 1	1	85
15	— 9	— 8	— 7	— 3	— 5	1	10	9	— 2	— 1	— 3	— 1	97
16	19	10	10	— 2	— 7	— 5	— 2	— 3	— 1	0	4	6	146
17	0	3	— 2	— 9	— 4	0	0	— 1	— 5	— 5	— 2	— 1	141
18	— 2	— 6	1	4	4	1	— 2	— 2	— 3	— 2	0	1	85
19	— 26	— 14	1	4	— 3	— 3	— 5	— 5	— 6	— 4	0	3	153
20	— 11	— 8	— 7	— 2	2	4	9	11	18	11	7	— 10	155
21	— 8	— 3	1	0	— 1	1	2	2	— 4	— 8	— 3	— 1	77
22	9	10	10	9	5	0	— 2	1	— 2	— 4	— 2	— 4	119
23	— 1	5	10	9	3	— 1	— 1	0	— 2	— 1	0	— 3	90
24	2	— 5	— 7	— 2	3	5	5	2	1	0	— 2	— 1	83
25	— 2	— 5	3	4	— 2	— 8	— 5	1	15	9	— 6	— 11	103
26	18	9	6	7	12	18	3	— 2	1	6	— 19	— 2	227
27	12	12	8	4	— 1	— 7	— 2	— 1	— 10	4	6	5	115
28	12	4	— 7	— 6	— 4	— 3	— 2	1	5	— 2	3	3	106
29	20	15	7	5	7	— 1	— 5	— 6	— 2	2	5	— 4	151
30	9	7	1	— 1	5	1	— 2	— 4	— 2	0	0	5	78
31	— 2	3	1	— 4	— 5	— 1	— 1	— 2	— 1	2	6	9	73
Hourly Amount.	290	241	158	134	124	96	90	88	115	102	91	113	3585

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1.

SEPTEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 1	0	1	1	— 1	— 3	— 3	— 2	— 3	— 4	— 2	0	—
2	— 1	0	0	2	3	2	6	6	2	0	0	— 6	—
3	1	0	1	1	1	— 2	1	4	0	2	0	— 5	—
4	1	2	4	— 1	1	5	9	12	8	3	— 4	— 7	—
5	— 1	2	1	2	1	5	11	18	13	2	— 4	— 7	—
6	1	1	1	1	0	2	9	2	— 1	3	5	1	—
7	4	4	3	0	0	1	2	— 1	— 3	0	2	— 1	—
8	1	0	3	— 1	1	3	5	— 1	1	0	— 1	1	—
9	— 4	— 9	— 5	— 4	— 3	4	13	— 4	7	8	5	2	—
10	0	— 1	— 6	0	0	— 2	— 1	— 1	— 1	— 2	— 2	3	—
11	1	— 4	— 2	2	2	3	7	14	7	— 2	— 17	— 12	—
12	2	— 1	3	2	3	2	5	0	— 1	— 8	— 2	— 4	—
13	— 1	1	1	2	1	— 3	— 5	— 5	— 5	— 7	0	7	—
14	2	0	— 1	1	1	0	1	0	— 2	— 1	— 3	— 1	—
15	— 1	1	0	— 1	— 1	— 4	— 4	1	2	2	3	— 2	—
16	— 1	0	2	1	0	— 1	0	— 1	— 5	0	— 1	— 2	—
17	0	— 1	— 1	— 2	— 2	— 1	2	4	0	2	2	1	—
18	0	2	2	3	1	2	5	— 3	— 7	— 2	3	1	—
19	1	4	3	3	2	2	2	— 3	— 9	— 3	2	2	—
20	1	2	2	1	1	— 1	0	— 2	— 3	— 4	— 1	3	—
21	1	2	2	1	— 2	— 5	— 13	— 11	— 8	— 5	9	17	—
22	4	2	3	3	0	— 5	— 13	— 8	1	5	2	7	—
23	— 12	— 10	— 15	— 12	— 14	— 11	— 9	9	17	14	17	11	—
24	— 8	— 4	— 5	— 4	0	5	1	0	— 1	1	1	— 1	—
25	— 2	— 1	— 3	3	4	6	5	3	0	1	— 1	— 8	—
26	2	3	0	0	1	5	— 1	— 3	— 2	3	— 1	— 1	—
27	2	2	2	1	0	— 4	— 9	— 7	— 2	2	— 3	— 5	—
28	— 1	3	3	2	0	— 3	— 6	— 8	— 3	— 7	— 1	5	—
29	1	0	— 1	— 1	— 1	— 4	— 5	— 5	— 7	— 7	— 3	10	—
30	5	2	1	— 3	0	— 1	— 11	— 9	0	— 2	— 6	— 5	—
Hourly Amount.	63	64	77	61	47	97	164	147	121	102	103	138	—

SEPTEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 5	— 3	0	4	6	2	— 2	— 2	— 2	— 1	0	— 1	49
2	— 9	— 5	1	3	3	5	— 2	— 1	— 1	0	— 1	0	59
3	— 9	— 8	— 5	1	5	3	0	— 3	0	— 1	1	— 2	56
4	— 6	— 8	— 7	— 4	— 1	— 1	— 1	— 1	0	— 1	0	— 1	88
5	— 9	— 13	— 9	— 5	— 2	— 1	— 1	1	2	3	3	1	117
6	— 10	— 9	— 9	— 5	— 2	0	0	1	2	0	2	4	71
7	— 4	— 4	— 1	1	4	3	1	— 1	— 1	— 3	0	2	46
8	— 5	1	— 1	— 1	1	6	— 3	— 1	— 1	— 1	— 2	— 5	46
9	6	9	9	— 5	1	— 17	— 1	— 5	— 3	— 3	0	0	127
10	1	14	3	8	3	2	1	— 4	— 4	— 2	— 2	— 2	65
11	— 4	9	4	2	— 2	— 6	— 5	— 2	0	0	— 2	2	111
12	6	5	5	— 1	— 3	— 1	— 2	— 1	0	— 1	— 1	2	61
13	7	2	0	1	0	— 3	1	0	1	0	1	2	56
14	— 2	— 6	— 1	2	1	— 2	0	1	2	2	2	0	34
15	— 4	0	4	9	4	3	3	0	— 1	0	0	— 1	51
16	— 7	— 5	— 3	0	5	3	1	— 1	— 1	— 2	— 1	0	43
17	— 1	— 4	4	4	4	1	— 1	— 1	— 1	0	2	— 1	42
18	— 6	— 6	— 4	— 4	— 2	— 2	1	3	0	1	3	2	65
19	2	— 1	— 2	— 1	— 3	0	— 2	0	0	1	2	4	54
20	5	1	— 2	— 4	— 5	— 1	0	0	1	4	5	2	51
21	16	7	— 1	— 3	— 8	— 3	— 2	0	— 3	— 1	3	5	128
22	7	— 4	— 3	— 2	— 1	10	3	0	4	— 2	— 18	— 15	122
23	11	12	16	8	7	7	6	6	0	5	— 3	— 9	241
24	— 4	— 5	— 3	— 9	— 1	3	5	4	0	— 3	— 2	0	70
25	— 3	— 8	— 6	— 3	— 1	2	1	1	— 4	1	1	1	69
26	1	6	5	0	— 4	— 1	0	1	1	1	3	1	46
27	2	4	2	5	6	— 1	— 1	0	2	1	— 1	1	65
28	1	4	4	3	3	— 2	— 1	0	2	1	3	0	66
29	21	16	3	— 1	— 2	— 4	0	2	— 1	— 4	3	5	107
30	4	2	1	— 1	— 4	0	1	5	5	4	4	3	79
Hourly Amount.	178	181	118	100	94	95	48	48	45	49	71	74	2285

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

SEPTEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	7	— 2	— 5	— 4	— 2	— 2	3	— 5	— 6	— 4	6	8	—
2	— 5	— 6	— 7	— 4	— 3	— 6	— 3	— 7	— 3	2	10	9	—
3	2	0	— 3	— 3	— 1	— 6	— 3	— 3	0	— 17	9	7	—
4	— 3	— 7	— 6	— 1	0	— 1	1	— 2	2	7	3	— 2	—
5	— 5	— 7	— 2	0	0	1	6	5	1	1	— 4	— 6	—
6	— 5	— 3	— 5	— 4	— 2	— 3	0	0	1	4	4	5	—
7	— 4	— 6	— 3	— 1	— 6	0	— 5	— 6	— 3	— 3	2	2	—
8	— 9	— 8	4	4	2	2	5	5	3	5	— 4	— 8	—
9	6	8	14	12	14	31	34	31	— 5	— 5	— 17	— 38	—
10	28	30	23	12	19	20	0	1	1	— 3	— 6	— 15	—
11	5	9	16	6	14	6	— 1	5	7	6	0	3	—
12	2	0	1	1	1	— 2	— 2	5	4	9	— 7	— 2	—
13	1	1	— 3	— 2	— 1	0	0	— 2	3	6	5	— 1	—
14	0	— 4	2	— 1	— 4	— 3	— 2	1	4	7	6	1	—
15	— 1	— 1	— 5	— 1	— 2	— 5	— 2	— 6	— 2	3	3	0	—
16	— 2	— 4	— 3	2	3	1	1	— 3	0	— 1	8	6	—
17	— 4	0	— 1	— 5	— 2	— 3	— 4	— 4	3	— 1	2	8	—
18	2	6	— 6	— 9	— 9	— 8	— 8	— 8	— 4	— 2	1	0	—
19	3	— 5	— 1	4	— 1	— 1	— 1	— 6	1	8	1	5	—
20	5	— 2	— 2	— 3	— 2	— 2	0	— 1	— 5	1	1	4	—
21	— 4	— 7	— 7	— 4	— 5	— 5	— 5	— 5	— 3	— 3	1	7	—
22	— 8	— 2	— 7	— 5	— 5	— 4	— 3	— 5	— 2	— 4	— 5	— 4	—
23	— 18	— 11	13	3	6	4	0	8	— 2	1	— 7	2	—
24	1	15	4	7	0	5	10	9	4	— 7	— 9	— 6	—
25	6	16	11	0	3	— 2	0	— 1	0	3	4	6	—
26	— 3	— 3	— 3	0	— 1	1	0	6	3	— 3	0	— 2	—
27	2	— 3	— 5	— 1	— 3	— 3	— 4	— 2	— 1	— 1	— 3	3	—
28	— 3	— 6	— 5	0	0	— 4	— 1	— 1	— 2	0	4	0	—
29	0	— 3	— 2	— 1	— 3	— 6	— 5	— 4	5	— 3	1	5	—
30	— 1	2	— 6	— 3	— 8	— 10	— 8	— 7	— 3	— 3	— 3	1	—
Hourly Amount.	145	177	175	103	122	147	117	154	83	123	136	166	—

SEPTEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	9	3	5	1	2	5	5	4	0	2	— 7	— 5	102
2	4	8	3	— 5	— 5	1	— 2	1	2	— 2	— 1	3	102
3	8	2	3	7	6	6	2	5	— 3	— 4	— 9	— 1	110
4	— 4	— 1	1	2	5	5	— 1	— 3	— 4	1	— 4	0	66
5	— 3	— 2	0	2	6	6	4	1	— 3	— 2	— 4	— 3	74
6	6	8	6	5	5	2	3	4	2	1	0	— 3	81
7	5	7	4	4	4	6	3	— 2	— 5	— 6	— 8	— 11	106
8	7	— 7	— 4	9	7	— 7	0	3	6	1	— 3	1	114
9	— 25	— 27	— 19	— 31	— 49	— 33	— 28	— 22	1	14	21	14	499
10	— 11	— 9	4	— 17	— 13	— 35	— 4	— 3	13	9	6	4	286
11	— 9	— 27	— 23	— 10	— 4	15	8	12	— 3	— 8	9	4	210
12	1	0	3	— 15	— 1	— 1	2	3	1	3	— 1	0	67
13	— 3	— 7	— 7	— 5	4	5	4	3	— 1	2	— 4	1	71
14	— 5	— 2	— 2	— 2	2	4	2	0	— 2	0	— 4	— 1	61
15	4	2	0	2	1	0	— 1	1	1	0	— 7	— 4	54
16	— 1	4	4	4	0	— 1	3	4	— 1	1	— 1	2	60
17	8	7	4	5	5	2	1	3	0	— 2	— 3	1	78
18	3	6	— 5	4	3	4	4	— 4	— 5	— 2	— 1	2	106
19	6	— 3	— 1	0	3	4	— 2	— 9	— 1	1	— 4	— 3	74
20	5	4	3	3	6	5	2	0	— 2	— 4	— 5	— 3	70
21	13	13	11	12	13	9	7	2	4	5	— 3	— 4	152
22	6	22	18	20	25	9	— 7	— 3	— 25	— 35	20	0	244
23	— 19	— 14	— 28	— 8	— 17	2	0	4	16	6	20	9	218
24	— 11	— 8	— 13	— 4	— 4	— 16	— 12	2	— 7	3	10	10	177
25	— 4	4	6	4	— 4	— 3	— 3	— 4	10	0	— 2	— 2	98
26	0	— 6	— 1	4	7	0	3	— 2	— 3	— 2	— 8	0	61
27	6	11	16	9	0	— 1	4	— 6	— 6	— 1	— 4	5	100
28	3	— 2	— 3	— 6	— 13	1	4	4	1	5	1	0	69
29	6	4	0	0	1	4	3	4	10	11	— 2	— 13	96
30	6	13	11	6	4	1	0	— 3	0	0	— 4	— 2	105
Hourly Amount.	201	233	208	206	219	193	124	121	138	133	176	111	3711

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

SEPTEMBER. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	1	7	7	7	5	6	— 1	— 13	— 14	— 5	0	8	—
2	5	3	5	4	1	— 1	— 12	— 17	— 13	— 11	— 1	10	—
3	1	1	2	1	1	0	— 7	— 7	— 5	— 4	— 1	2	—
4	— 1	1	2	— 1	— 3	— 6	— 10	5	6	6	7	6	—
5	1	2	1	3	3	— 8	— 12	— 4	0	6	1	2	—
6	0	1	1	0	— 1	— 4	— 3	— 1	— 4	— 15	— 12	— 2	—
7	— 3	— 1	— 5	— 4	0	— 5	— 5	3	3	1	1	3	—
8	3	— 1	— 10	— 8	— 4	— 5	— 7	— 5	0	2	0	3	—
9	— 10	— 11	— 15	— 14	— 16	— 23	— 31	— 20	6	11	24	29	—
10	— 14	— 19	— 8	— 1	— 6	— 1	3	0	1	0	6	9	—
11	— 1	— 4	— 11	— 3	— 6	— 4	2	8	16	21	6	— 3	—
12	2	2	2	3	2	4	4	2	3	1	2	— 3	—
13	3	2	3	2	0	2	2	1	— 3	— 7	— 15	— 5	—
14	0	0	— 5	— 2	— 2	— 3	— 5	5	0	— 5	0	7	—
15	6	9	11	8	8	13	3	— 15	— 18	— 13	— 2	6	—
16	0	2	3	0	1	1	4	— 2	— 4	— 2	— 9	— 7	—
17	2	4	3	4	3	3	0	0	— 6	— 4	— 1	— 6	—
18	— 1	— 4	5	7	7	0	6	13	9	3	— 3	2	—
19	— 3	4	0	— 2	4	4	7	17	8	— 1	4	1	—
20	— 7	— 2	— 2	— 1	— 1	— 4	— 1	5	13	11	4	— 6	—
21	5	9	11	10	11	14	7	— 6	— 12	— 14	— 9	— 7	—
22	2	— 1	2	0	0	4	2	3	3	9	9	0	—
23	11	5	— 9	— 7	— 5	— 5	— 3	3	— 3	— 11	— 5	— 10	—
24	8	— 2	4	1	5	4	— 3	— 14	— 14	— 10	0	2	—
25	— 4	— 11	— 7	— 1	— 3	0	7	5	6	0	0	0	—
26	3	4	6	3	3	5	9	0	— 2	— 7	— 7	— 7	—
27	— 1	3	1	— 2	— 2	2	3	— 2	— 3	— 7	— 4	— 1	—
28	1	1	0	— 3	— 1	1	6	7	7	3	5	4	—
29	4	7	7	4	5	10	14	15	7	24	— 15	— 34	—
30	— 6	— 10	— 7	— 9	— 10	— 8	18	16	14	18	19	6	—
Hourly Amount.	109	133	155	115	119	150	197	214	203	232	172	191	—

SEPTEMBER. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	7	— 1	— 7	— 9	— 6	— 5	— 4	— 3	0	0	4	2	122
2	14	8	— 1	0	5	2	— 2	— 1	0	0	0	— 2	118
3	2	3	1	— 5	— 7	— 1	2	1	2	0	3	— 1	60
4	7	— 2	— 4	— 5	— 2	— 1	3	3	3	— 1	2	0	87
5	7	3	1	— 1	— 3	— 2	1	2	3	1	3	0	70
6	7	14	5	3	2	4	2	1	0	— 3	— 4	— 3	92
7	4	— 4	2	3	2	2	3	4	4	3	1	2	68
8	— 4	12	9	3	3	10	6	0	— 2	2	3	— 4	106
9	18	16	19	24	30	17	7	6	— 13	— 15	— 18	— 12	405
10	— 1	— 12	— 12	5	8	19	1	3	— 5	— 6	— 6	— 2	148
11	— 10	— 5	2	— 3	— 6	— 13	— 5	— 6	8	10	0	3	156
12	— 9	— 9	— 5	5	— 2	— 2	— 3	— 4	— 2	0	2	1	74
13	2	5	6	6	3	— 2	1	0	1	— 1	0	— 1	73
14	11	9	— 1	— 10	— 4	— 5	— 4	— 4	1	2	3	6	94
15	9	3	— 1	— 3	— 3	— 2	— 1	0	0	— 1	5	2	142
16	5	6	1	— 4	0	1	0	— 2	— 1	0	2	2	59
17	— 2	— 4	— 7	— 6	— 4	0	1	0	— 1	— 1	0	— 2	64
18	3	— 4	— 5	— 9	— 6	— 5	— 3	— 1	2	— 1	— 1	— 3	103
19	— 9	— 1	— 2	2	— 2	— 2	2	4	— 3	— 5	— 3	— 2	92
20	— 3	— 2	1	— 2	— 8	— 7	— 5	— 4	— 5	0	2	5	101
21	— 4	1	— 2	— 6	— 9	— 7	— 4	— 1	— 1	— 4	0	1	155
22	— 9	— 12	— 9	— 10	— 16	— 4	15	7	16	24	— 4	1	162
23	0	4	18	6	7	0	— 3	— 3	— 8	2	— 2	3	133
24	4	1	10	6	2	11	9	0	5	— 3	— 9	— 7	134
25	2	1	— 6	— 4	— 2	— 3	— 3	0	— 6	0	2	3	76
26	— 7	— 1	— 3	— 6	— 6	— 2	— 2	3	3	2	6	1	98
27	— 6	— 5	— 2	8	8	3	— 2	4	3	1	0	— 4	77
28	— 6	— 6	— 4	— 2	4	— 3	— 7	— 8	— 5	— 5	— 2	2	93
29	— 28	— 13	0	7	1	— 14	— 13	— 12	— 12	— 9	— 3	— 3	261
30	2	2	5	4	2	— 2	— 4	— 5	— 5	— 4	0	1	177
Hourly Amount.	202	169	151	167	163	151	118	92	120	106	90	81	3600

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
OCTOBER. 1	1	3	3	5	3	2	— 2	— 7	— 8	— 7	2	0	—
2	3	5	6	5	5	2	3	0	— 3	— 1	— 2	— 4	—
3	— 2	1	2	1	1	2	2	1	0	— 7	— 5	2	—
4	3	5	4	5	4	4	— 1	— 10	— 9	3	6	2	—
5	5	6	6	7	3	— 2	2	0	— 7	0	0	— 2	—
6	— 3	— 8	— 4	— 9	3	— 5	— 12	0	2	1	14	10	—
7	— 1	6	— 3	— 2	3	1	2	0	— 9	— 3	2	0	—
8	4	4	3	5	1	0	— 3	— 3	2	1	0	3	—
9	4	5	3	3	— 1	— 4	— 4	— 3	— 3	2	3	— 1	—
10	3	1	— 1	0	— 2	1	7	5	— 2	— 8	— 10	— 5	—
11	— 2	— 1	— 1	— 1	0	2	3	2	2	0	— 6	— 9	—
12	3	1	2	— 3	— 3	— 2	— 4	— 23	6	5	3	— 2	—
13	— 1	— 1	— 1	— 5	— 5	— 5	2	8	4	— 2	— 3	— 4	—
14	0	— 4	— 3	— 2	— 3	1	0	— 6	1	6	— 1	— 2	—
15	0	— 3	0	2	3	4	4	4	— 2	— 5	— 9	— 3	—
16	— 2	2	2	5	9	— 7	1	— 1	— 1	0	3	2	—
17	0	4	2	0	— 1	3	2	1	0	— 3	— 7	— 4	—
18	1	1	— 1	— 2	— 3	— 4	2	5	1	1	5	4	—
19	— 4	— 3	— 2	— 3	— 5	9	3	0	6	5	5	— 1	—
20	0	— 3	4	— 1	5	2	— 5	7	1	— 5	0	— 2	—
21	0	— 4	— 1	— 2	— 3	— 4	— 4	3	6	3	0	2	—
22	— 4	— 4	— 4	0	— 1	— 4	— 3	— 4	0	3	4	0	—
23	1	2	3	2	0	— 1	2	3	— 2	— 5	— 3	4	—
24	— 1	— 2	— 4	— 4	— 4	3	2	0	— 6	0	1	5	—
25	— 5	— 5	— 4	— 5	— 1	3	6	6	4	0	3	5	—
26	— 5	0	1	1	0	2	2	2	2	0	— 2	0	—
27	1	— 3	— 2	— 2	— 3	1	1	— 1	— 1	0	— 2	3	—
28	1	3	2	3	4	6	6	5	1	— 2	— 5	— 5	—
29	1	2	1	3	1	— 2	— 4	— 3	— 2	— 1	— 3	— 4	—
30	0	— 1	— 2	— 2	— 3	— 4	— 1	2	3	4	— 1	0	—
31	— 6	— 6	— 6	— 7	— 8	— 8	— 7	3	11	15	10	7	—
Hourly Amount.	67	99	83	97	91	100	102	118	107	98	120	97	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
OCTOBER. 1	— 7	— 2	— 2	— 2	— 2	— 2	— 1	0	1	1	2	3	68
2	— 6	— 9	— 5	— 2	— 1	0	0	0	1	2	3	2	70
3	7	3	1	— 4	— 2	— 2	— 4	— 3	— 2	— 1	3	5	63
4	1	— 4	— 11	— 6	— 3	— 2	2	3	2	4	6	6	106
5	— 13	— 10	— 7	1	6	3	6	7	6	5	— 2	— 6	112
6	— 1	— 2	3	6	1	0	— 1	— 7	— 2	— 2	1	— 1	98
7	2	7	4	3	— 4	— 4	0	— 9	— 6	— 5	0	4	80
8	— 4	— 2	— 1	— 2	— 1	— 1	2	— 1	— 1	1	2	6	53
9	— 6	— 3	— 4	— 3	— 2	0	0	3	3	4	5	4	73
10	6	7	3	0	— 3	— 2	0	0	0	1	0	— 2	69
11	— 4	0	0	0	3	1	1	2	4	5	2	5	56
12	— 2	— 2	4	3	1	0	1	1	2	2	3	1	79
13	— 4	— 1	2	5	2	1	2	3	4	0	— 2	— 1	68
14	— 3	0	2	3	1	0	1	0	0	2	3	— 1	45
15	— 2	1	0	0	— 1	0	1	0	— 4	— 4	— 1	— 2	55
16	— 3	2	0	— 1	2	0	— 1	— 3	— 3	— 4	— 4	1	59
17	— 1	— 1	1	1	2	— 1	0	— 3	— 3	— 1	0	1	42
18	9	9	6	2	— 3	— 4	— 3	— 2	— 3	— 4	— 3	— 5	83
19	— 5	1	0	— 1	1	3	4	1	1	— 6	— 5	— 3	77
20	— 5	— 5	— 2	— 1	2	5	— 7	0	6	2	1	— 1	72
21	5	4	2	8	4	1	— 2	1	1	— 5	— 4	— 4	73
22	— 1	— 2	1	— 1	0	2	0	0	— 6	2	4	3	53
23	5	2	— 5	— 2	— 1	6	1	1	3	1	0	0	55
24	4	— 4	— 5	— 1	1	1	1	1	— 1	— 2	— 4	— 4	61
25	9	3	— 1	— 3	— 2	— 1	— 1	2	0	0	— 1	— 4	74
26	1	0	2	1	0	0	0	1	3	2	1	— 3	31
27	1	3	4	3	— 2	— 3	— 2	— 2	— 2	0	2	2	46
28	— 9	— 5	4	3	3	1	0	— 2	— 1	— 1	— 1	1	74
29	0	— 4	— 2	0	0	3	3	2	1	1	2	1	46
30	8	7	3	— 2	0	— 2	1	3	— 2	— 1	— 3	— 3	58
31	16	12	— 2	— 4	— 2	— 2	— 2	— 1	— 2	— 2	— 2	0	141
Hourly Amount.	150	117	89	74	58	53	50	64	76	73	72	85	2140

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

OCTOBER. Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	0	— 4	— 4	— 4	— 2	1	1	8	9	8	— 1	2	—
2	1	— 4	— 7	— 3	— 5	— 6	— 5	0	0	— 3	0	5	—
3	3	1	— 1	— 1	3	6	9	9	4	6	17	6	—
4	7	7	3	— 3	— 4	— 6	— 6	0	— 2	2	6	2	—
5	— 1	— 5	— 8	— 8	— 3	— 1	— 3	5	8	9	7	3	—
6	— 15	— 10	— 3	16	6	3	4	2	6	7	— 19	— 26	—
7	3	6	5	— 3	7	5	5	11	10	— 6	— 8	— 3	—
8	12	6	0	3	1	— 8	0	8	7	1	— 2	— 5	—
9	3	— 1	10	1	2	2	2	3	1	— 2	4	2	—
10	12	6	5	— 2	1	— 4	— 8	— 12	— 2	5	5	7	—
11	— 2	— 5	0	0	— 1	1	0	4	3	— 3	5	3	—
12	— 3	— 6	— 6	— 3	— 2	— 1	— 1	— 3	— 5	— 3	2	— 2	—
13	— 1	— 2	— 2	— 3	— 1	— 2	— 3	0	— 2	2	3	1	—
14	19	10	2	4	— 7	— 1	— 2	— 10	— 12	— 10	— 1	8	—
15	— 5	5	0	— 6	— 3	— 1	1	— 2	2	8	6	2	—
16	12	— 1	— 4	0	1	6	— 3	— 6	— 3	3	6	5	—
17	1	0	— 3	— 1	— 4	— 4	— 5	— 6	— 8	— 11	— 1	5	—
18	— 5	— 3	— 1	— 1	— 1	— 1	2	3	3	4	5	7	—
19	— 22	— 10	— 8	— 2	— 5	— 8	— 12	— 6	— 7	— 7	— 14	— 9	—
20	— 3	3	7	6	7	9	1	— 11	— 9	— 3	— 10	— 3	—
21	— 4	6	9	15	8	15	12	— 4	— 7	— 9	— 6	— 5	—
22	3	14	7	5	— 3	— 2	6	1	— 1	— 1	— 10	— 4	—
23	4	7	6	5	8	4	5	— 2	— 2	— 3	— 1	— 1	—
24	5	4	10	11	12	8	5	6	0	— 2	— 4	— 8	—
25	— 1	— 5	— 6	— 8	— 3	— 2	— 3	— 2	— 1	— 1	1	— 1	—
26	— 1	— 3	— 2	0	— 1	2	6	5	4	7	5	3	—
27	— 9	2	— 7	— 8	— 5	— 6	— 4	— 2	— 1	3	3	— 2	—
28	— 3	— 3	— 1	0	1	— 1	3	4	1	— 2	— 5	— 4	—
29	— 12	— 8	— 3	— 6	— 2	— 2	— 2	— 3	1	— 1	— 2	— 2	—
30	0	0	3	1	2	1	— 3	— 1	0	1	3	4	—
31	3	— 1	— 3	— 4	— 5	— 7	— 6	— 5	— 3	— 5	4	4	—
Hourly Amount.	175	148	136	133	116	126	128	144	124	138	166	144	—

OCTOBER. Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	3	— 3	4	4	0	2	2	3	0	— 4	0	2	71
2	3	2	2	0	6	1	0	— 1	0	— 3	— 1	— 2	60
3	— 28	— 37	— 32	— 19	— 6	— 2	10	7	12	9	8	5	241
4	— 6	— 6	— 5	0	4	3	— 3	— 6	0	2	3	— 4	90
5	6	13	14	18	11	7	— 3	— 5	— 4	— 3	6	5	156
6	— 12	— 4	— 18	— 10	— 18	2	— 7	10	2	0	4	14	218
7	— 3	— 8	— 5	— 5	0	7	2	3	— 11	3	— 10	— 6	135
8	5	0	— 1	2	— 5	3	— 14	— 5	— 9	— 5	— 1	0	103
9	0	15	— 4	— 9	— 5	— 2	6	— 10	— 7	— 6	5	3	105
10	2	— 3	2	— 4	— 3	— 1	— 2	— 2	— 1	— 5	— 4	— 7	105
11	5	4	7	3	1	— 2	0	1	4	— 3	— 1	— 7	65
12	7	8	8	4	3	3	2	0	0	— 6	— 7	— 2	87
13	1	— 1	2	— 4	— 9	— 9	— 12	— 6	— 6	17	10	32	131
14	10	2	— 4	0	4	7	— 3	— 1	— 5	— 5	— 9	— 6	142
15	1	0	5	3	3	3	— 2	— 1	2	4	0	— 6	71
16	— 6	— 12	— 6	— 4	— 2	2	4	1	1	0	0	3	91
17	9	5	8	10	7	9	2	— 7	— 4	— 3	— 8	— 7	128
18	2	6	9	7	3	5	5	9	12	14	4	— 2	114
19	— 1	12	11	9	2	— 11	— 4	1	5	6	7	— 3	182
20	7	13	13	4	— 3	— 29	— 9	— 1	— 2	— 2	— 6	— 4	165
21	0	— 17	— 19	— 11	— 1	— 2	8	0	5	14	5	3	185
22	— 4	— 2	— 7	— 11	— 10	— 10	2	— 2	21	4	1	1	132
23	— 3	— 3	— 4	2	0	— 7	— 3	— 8	— 21	— 8	— 1	6	114
24	— 5	— 5	— 8	— 3	0	2	4	9	4	3	6	— 1	125
25	— 2	— 2	7	3	3	1	2	— 3	— 8	— 9	— 5	— 1	80
26	— 3	— 8	— 6	— 4	13	5	6	7	2	— 2	0	— 1	96
27	— 1	8	11	6	4	5	6	4	8	1	— 1	— 2	109
28	2	3	1	8	7	9	4	6	0	— 2	— 10	— 11	91
29	— 2	4	4	— 2	— 5	0	0	2	2	3	4	1	73
30	4	3	— 1	— 6	— 7	— 4	0	— 1	— 1	— 1	2	— 3	52
31	9	9	15	10	9	9	5	4	2	— 2	— 3	5	132
Hourly Amount.	152	218	243	185	154	164	132	126	161	149	132	155	3649

VERTICAL FORCE. D.

DEVIATIONS — UNITY = 0.00001 C. G. S.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	1	2	2	3	1	3	0	— 3	— 4	— 8	— 3	— 1	—
2	— 2	— 2	0	— 4	— 3	— 2	— 1	— 2	— 8	— 9	— 3	3	—
3	— 2	0	— 1	— 2	— 3	— 4	— 5	3	— 5	— 12	— 10	— 4	—
4	— 2	— 2	1	7	7	8	10	10	— 2	— 18	— 7	2	—
5	0	5	8	11	9	12	6	— 5	— 5	— 12	— 7	5	—
6	9	5	— 5	— 10	— 10	— 4	— 4	6	6	— 6	7	10	—
7	— 2	— 4	0	5	— 1	1	9	4	4	6	1	3	—
8	— 10	— 8	— 3	— 4	— 2	6	— 5	— 11	— 7	2	5	5	—
9	— 5	— 2	— 7	— 4	— 1	2	1	1	— 2	— 5	— 7	— 1	—
10	— 9	— 3	0	7	5	6	10	4	6	7	4	— 7	—
11	1	1	— 5	— 5	— 4	— 5	— 5	— 12	— 2	4	8	0	—
12	3	3	4	1	0	— 2	— 2	— 6	— 7	— 7	1	7	—
13	0	0	— 1	— 1	— 2	— 6	— 6	3	4	0	— 2	— 1	—
14	— 1	10	13	9	11	6	3	— 2	— 4	3	6	— 1	—
15	3	0	— 2	2	1	— 1	3	5	2	17	— 6	— 10	—
16	— 8	3	6	1	— 1	— 3	4	7	0	— 1	— 2	— 4	—
17	1	4	5	3	4	2	0	3	7	12	12	1	—
18	4	3	2	2	2	0	0	— 4	— 4	— 1	— 1	— 8	—
19	12	1	2	— 7	— 6	— 6	3	3	1	3	8	12	—
20	— 2	— 5	— 8	— 9	— 11	— 11	— 11	4	5	2	4	5	—
21	0	— 6	— 7	— 9	— 2	0	1	8	13	9	— 2	— 10	—
22	— 3	— 11	— 6	— 4	2	1	— 1	7	7	5	9	2	—
23	— 2	— 2	0	2	2	3	0	— 9	— 3	— 3	— 5	— 4	—
24	— 8	— 8	— 8	— 8	— 6	— 4	2	1	5	4	— 1	2	—
25	2	4	2	3	0	— 3	0	— 4	0	— 3	— 6	— 2	—
26	— 4	— 2	— 2	— 3	— 3	— 2	— 2	— 2	0	— 1	— 9	— 8	—
27	7	0	5	4	4	3	1	1	4	1	— 3	— 1	—
28	0	0	— 2	— 6	— 7	— 8	— 9	8	13	17	14	9	—
29	12	8	3	5	4	4	0	— 14	— 13	— 4	4	3	—
30	1	2	— 2	2	2	— 1	— 2	0	4	4	2	— 6	—
31	2	4	5	6	6	2	— 6	— 15	— 10	— 5	— 2	7	—
Hourly Amount.	118	110	117	149	122	121	112	167	157	191	161	144	—

OCTOBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 5	3	2	2	5	0	0	— 4	— 3	1	— 2	— 3	61
2	6	5	7	7	3	2	1	0	— 2	0	— 1	— 1	74
3	14	20	29	18	6	0	— 12	— 9	— 9	— 8	— 5	— 3	184
4	6	11	8	3	— 4	— 4	— 3	— 1	— 4	— 4	— 5	2	131
5	5	— 9	— 11	— 15	— 8	— 5	4	5	2	0	— 5	— 4	158
6	7	6	12	6	10	— 3	3	— 6	— 3	— 3	— 5	— 12	158
7	— 6	— 11	— 6	1	1	— 3	0	4	10	0	2	0	84
8	5	0	1	— 1	2	2	9	4	5	2	— 1	— 4	104
9	2	7	4	6	2	0	— 2	7	6	2	— 5	— 2	83
10	— 9	— 5	— 6	2	0	— 2	1	0	0	1	0	1	95
11	— 2	0	1	2	1	0	— 1	— 1	— 1	3	4	8	76
12	0	— 5	— 5	— 3	0	1	2	1	1	5	4	0	70
13	1	— 5	— 7	— 4	2	6	6	3	4	— 7	— 1	— 9	81
14	— 4	— 12	— 11	— 8	— 8	— 6	— 1	— 1	2	3	3	3	131
15	— 6	— 5	— 4	— 5	— 1	— 2	— 1	0	0	— 2	2	6	86
16	1	3	— 5	— 2	— 3	— 1	— 1	0	— 2	— 1	0	2	61
17	— 10	— 13	— 10	— 10	— 7	— 5	— 1	5	1	1	3	4	124
18	— 5	— 6	0	3	6	2	0	— 4	— 7	— 8	— 3	— 1	76
19	6	1	3	— 1	1	6	3	1	— 3	1	— 5	1	96
20	3	1	1	1	3	20	11	2	— 4	— 2	1	— 1	127
21	— 8	2	2	1	— 3	0	— 1	1	— 3	— 8	— 3	— 2	101
22	0	1	6	6	5	3	— 2	1	— 8	0	3	1	94
23	0	1	— 1	— 3	— 2	4	3	8	15	4	— 1	— 6	83
24	6	11	5	— 1	— 5	— 4	— 4	— 4	— 1	2	0	5	105
25	5	10	8	3	1	0	— 1	3	6	4	1	— 1	72
26	— 2	2	2	1	— 8	— 4	— 3	— 1	2	6	6	5	80
27	— 1	— 6	— 11	— 6	— 5	— 4	— 4	— 2	— 3	0	0	1	77
28	— 3	— 8	— 5	— 8	— 7	— 6	— 4	— 4	2	6	11	13	170
29	2	5	— 4	— 1	1	— 4	— 4	— 5	— 4	— 3	— 2	— 1	110
30	— 9	1	1	— 2	— 1	— 1	— 1	0	0	1	2	4	51
31	5	— 2	— 4	3	2	2	— 1	— 4	— 4	— 3	— 2	— 8	110
Hourly Amount.	144	177	182	135	113	102	90	91	117	91	88	114	3113

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
NOVEMBER. 1	4	3	0	— 1	— 7	6	7	6	2	— 2	— 8	— 16	—
2	— 11	— 7	— 10	— 7	— 12	— 10	— 6	13	17	22	17	8	—
3	— 2	— 2	0	— 2	— 2	4	6	3	2	4	3	5	—
4	— 1	— 1	— 1	— 3	— 1	— 2	1	2	2	6	1	4	—
5	3	2	2	0	— 2	— 7	— 6	— 2	3	6	8	3	—
6	3	1	2	1	— 1	— 6	— 11	— 8	0	6	4	3	—
7	4	3	4	4	0	— 5	— 4	— 7	— 7	— 3	2	6	—
8	0	0	0	— 1	— 2	0	— 5	— 9	0	2	8	7	—
9	6	5	5	3	3	0	1	— 2	— 5	— 8	— 6	1	—
10	3	1	— 7	— 14	— 12	— 12	— 1	— 1	— 1	5	14	13	—
11	3	4	4	8	6	3	0	— 4	— 6	— 8	— 9	— 8	—
12	— 2	1	2	3	2	4	5	— 1	— 6	— 5	— 1	3	—
13	3	0	2	1	3	— 2	0	— 3	— 7	— 8	— 5	0	—
14	2	1	1	0	0	— 4	— 3	0	— 1	— 3	— 1	2	—
15	0	— 1	0	0	— 1	— 4	3	2	4	— 1	1	0	—
16	— 1	0	— 1	0	— 2	2	5	— 1	— 2	— 6	— 5	— 3	—
17	4	4	2	6	4	1	— 2	— 1	— 3	— 3	— 7	— 7	—
18	— 8	— 7	— 8	0	2	— 2	— 6	— 1	5	9	10	5	—
18	2	3	4	4	4	2	— 4	— 8	— 10	— 9	— 5	1	—
20	— 4	— 3	— 5	— 5	— 3	— 3	4	7	7	8	10	— 4	—
21	3	3	3	2	— 1	— 6	— 9	— 5	— 1	— 3	— 2	4	—
22	4	2	1	— 1	0	— 7	— 16	— 13	— 1	7	11	8	—
23	1	2	3	5	5	9	2	— 6	— 8	— 9	— 3	4	—
24	— 1	— 3	— 2	— 4	— 3	— 1	1	3	2	1	5	12	—
25	8	12	8	10	7	7	0	1	— 5	— 4	— 15	— 19	—
26	4	— 1	2	0	1	5	4	2	1	— 3	— 6	— 3	—
27	— 1	— 6	5	3	13	15	14	8	— 5	— 8	— 4	— 1	—
28	— 1	4	1	4	7	14	14	9	1	— 5	— 14	— 12	—
29	— 21	— 12	— 10	— 9	— 6	1	7	10	14	8	— 5	— 9	—
30	— 4	— 4	— 6	— 4	— 3	1	3	8	9	4	3	— 5	—
Hourly Amount.	114	98	101	105	115	145	150	146	137	176	193	176	—

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
NOVEMBER. 1	— 14	5	10	12	7	7	1	4	5	— 11	— 6	— 6	150
2	— 2	— 7	— 5	0	— 4	— 1	— 9	— 5	— 9	— 6	0	0	188
3	2	— 1	0	— 2	1	— 2	— 2	— 12	— 3	— 4	— 4	— 1	69
4	9	5	5	— 5	— 4	— 3	— 2	— 2	— 4	0	0	1	65
5	4	2	— 1	— 1	— 1	— 9	3	1	— 1	— 1	0	0	68
6	5	1	— 1	— 3	— 4	4	2	0	0	2	2	1	71
7	4	0	— 5	— 7	— 3	4	5	0	0	2	1	1	81
8	5	— 1	— 6	— 2	0	2	0	— 1	— 1	0	1	2	55
9	2	0	— 2	5	1	— 2	2	3	4	5	7	6	84
10	1	— 4	— 6	— 4	— 6	— 4	— 2	— 4	— 2	1	2	6	126
11	1	2	2	— 2	— 2	— 2	— 1	— 2	— 3	— 2	— 2	— 3	87
12	2	1	4	5	1	— 2	— 3	— 1	— 1	1	3	3	62
13	2	2	2	— 2	— 3	— 2	— 1	1	0	1	2	1	53
14	2	6	4	0	0	— 3	— 2	— 1	0	1	2	0	39
15	— 2	1	4	3	4	— 1	— 3	0	— 1	2	0	— 5	43
16	— 3	1	3	6	5	1	— 1	— 3	1	2	2	3	59
17	— 8	— 9	2	2	6	6	6	11	9	1	1	— 8	113
18	2	— 1	— 4	— 2	0	— 3	2	— 3	2	0	— 5	3	90
19	0	— 3	— 4	— 1	2	1	2	0	— 1	— 1	— 2	— 2	75
20	6	5	2	— 1	1	1	— 1	1	2	2	1	1	87
21	0	— 1	— 4	— 3	— 1	2	3	2	4	4	4	4	74
22	5	2	1	— 4	— 5	— 4	— 3	— 4	— 2	0	1	2	104
23	0	0	— 1	0	— 2	— 1	— 1	1	0	1	1	— 3	68
24	8	5	— 2	— 4	— 6	— 5	— 4	— 2	0	4	5	3	86
25	— 15	— 4	— 5	2	3	— 1	0	4	4	— 1	0	0	135
26	2	4	— 2	— 3	— 4	1	2	1	— 7	— 9	— 6	— 5	78
27	— 5	— 5	— 2	— 1	— 3	0	0	1	— 4	— 3	— 2	3	112
28	— 15	— 7	— 2	5	5	11	9	10	8	7	0	1	166
29	— 3	— 1	0	1	2	0	— 2	1	— 2	0	— 3	— 2	129
30	0	— 2	— 1	0	3	7	0	0	1	1	— 4	— 3	76
Hourly Amount.	129	88	92	88	89	92	74	81	81	75	69	79	2693

HORIZONTAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

NOVEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	7	— 2	— 11	— 8	5	5	2	3	1	4	7	24	—
2	— 5	6	24	10	12	8	5	— 6	— 6	— 15	— 14	— 16	—
3	2	7	6	8	5	8	4	3	— 2	— 5	— 5	— 15	—
4	6	1	1	— 3	— 1	3	3	9	9	— 12	3	4	—
5	— 2	— 2	— 1	0	0	0	0	1	— 2	2	4	3	—
6	— 5	— 4	0	3	1	5	6	— 7	5	6	5	6	—
7	— 3	— 3	— 4	— 5	0	1	2	2	5	9	3	5	—
8	— 9	— 4	— 1	— 2	— 2	— 3	3	9	11	9	7	— 1	—
9	— 2	— 4	— 5	0	— 3	— 2	— 1	— 6	— 6	— 3	— 3	3	—
10	— 15	— 10	3	19	12	23	— 15	18	15	4	1	— 5	—
11	— 2	— 8	— 5	1	— 4	— 6	— 6	— 3	1	1	4	5	—
12	0	— 6	— 6	— 4	1	— 2	4	— 1	— 1	— 3	2	4	—
13	— 2	— 3	— 3	— 4	— 4	— 7	— 6	— 4	— 3	2	9	10	—
14	— 4	— 6	— 7	— 6	— 10	— 7	— 8	— 6	0	4	5	8	—
15	— 2	0	— 2	0	— 3	— 6	— 3	— 3	— 1	0	1	0	—
16	1	2	7	— 1	— 7	— 11	— 14	— 9	— 8	3	7	5	—
17	— 3	— 4	— 6	— 4	— 3	— 7	— 9	— 9	— 1	— 3	1	5	—
18	— 9	— 9	— 1	— 4	3	3	2	4	— 1	1	3	3	—
19	— 9	— 1	0	— 2	0	3	6	0	0	4	— 1	— 3	—
20	— 3	— 1	2	— 5	— 4	— 2	— 3	0	3	8	7	4	—
21	— 7	— 4	4	— 1	1	2	4	8	9	8	— 4	— 10	—
22	— 5	— 2	0	— 1	— 1	— 3	18	25	— 2	10	— 12	2	—
23	— 3	— 1	— 3	— 1	— 2	— 6	— 2	— 3	6	11	2	— 2	—
24	— 10	— 11	— 13	— 10	— 10	— 11	— 7	— 1	6	6	8	7	—
25	4	8	1	0	— 7	— 5	— 1	3	— 4	— 5	0	2	—
26	— 2	2	3	4	0	1	— 1	— 2	3	0	0	1	—
27	4	7	13	15	9	9	22	— 1	— 10	— 9	— 12	— 18	—
28	37	11	19	11	13	11	4	— 9	— 15	— 23	— 16	— 23	—
29	46	41	— 12	— 12	— 8	— 8	— 13	— 19	— 16	— 18	— 13	— 11	—
30	— 4	— 1	2	3	5	6	5	3	— 1	4	1	3	—
Hourly Amount.	213	171	165	147	136	174	179	177	153	192	160	208	—

NOVEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	23	2	— 6	— 3	— 10	— 1	— 19	11	— 28	— 1	— 43	— 27	253
2	— 4	— 5	— 9	— 5	— 7	— 1	19	3	14	18	4	1	217
3	— 15	— 20	— 14	— 9	— 5	5	— 7	17	— 4	— 4	2	8	180
4	4	5	— 1	— 2	— 1	0	1	5	8	— 10	— 9	— 5	106
5	5	7	8	9	3	4	— 13	— 13	— 10	— 10	— 6	— 5	110
6	3	1	— 1	— 4	— 1	— 3	— 3	— 6	0	2	5	3	85
7	3	5	— 1	— 2	0	— 1	— 2	— 4	— 3	— 2	2	— 2	69
8	— 4	— 5	— 6	— 6	— 3	0	1	3	3	4	7	3	106
9	4	5	5	3	4	3	2	— 1	— 4	— 5	— 5	— 10	89
10	— 3	— 4	— 10	— 7	0	— 1	0	— 4	1	3	6	2	181
11	1	2	2	— 1	0	6	— 1	— 4	6	0	— 1	14	84
12	6	3	0	1	— 2	1	— 3	1	— 1	— 2	0	— 2	56
13	6	4	1	— 1	0	1	— 2	— 1	1	0	2	— 2	78
14	8	10	10	3	2	— 1	— 3	0	0	1	2	— 3	114
15	4	8	7	9	6	5	1	— 2	4	— 4	— 5	7	83
16	1	— 11	— 7	2	3	2	3	10	5	0	2	0	121
17	16	24	24	9	2	7	19	— 13	— 15	— 11	— 9	9	213
18	2	0	— 8	— 9	— 8	— 4	— 2	12	0	— 2	17	— 2	109
19	— 3	5	5	4	6	0	1	— 4	0	— 6	— 6	— 5	74
20	2	7	6	5	1	— 3	— 4	— 5	— 3	— 5	0	0	83
21	— 12	— 9	— 3	— 1	0	— 1	— 2	— 5	— 3	— 2	0	— 2	102
22	1	1	— 7	— 7	— 3	— 3	— 10	3	3	3	3	1	126
23	3	4	4	4	4	1	1	3	2	— 1	— 1	— 11	81
24	5	6	8	— 2	— 3	— 2	2	3	10	9	8	10	168
25	1	— 4	— 8	— 8	— 1	— 2	4	— 6	0	15	— 1	— 3	93
26	2	5	21	23	10	— 3	— 17	— 23	— 12	— 6	— 4	8	153
27	— 26	— 22	— 12	— 2	0	— 5	— 6	2	— 4	— 1	— 2	— 7	218
28	— 13	— 8	— 3	2	10	12	20	20	15	15	4	1	315
29	— 17	— 10	4	5	3	2	8	— 3	9	0	0	1	279
30	1	— 4	— 9	— 12	— 14	— 23	2	— 5	— 1	5	20	7	141
Hourly Amount.	198	206	210	160	112	103	178	192	169	147	176	161	4087

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0.00001 C. G. S.

NOVEMBER.

Mean Batavia Time.	1 A.M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 9	— 3	1	— 1	— 10	— 17	— 14	4	3	3	2	0	—
2	— 6	— 13	— 17	— 5	— 5	— 1	3	3	— 3	2	— 3	2	—
3	3	0	0	1	6	2	6	— 3	— 3	— 2	— 7	0	—
4	— 7	— 4	— 2	— 1	— 5	— 6	— 8	0	— 2	12	6	0	—
5	— 5	— 4	— 2	— 3	— 2	— 1	— 7	— 3	— 5	— 8	— 7	4	—
6	— 6	— 6	— 8	— 9	— 5	— 4	0	16	8	7	4	3	—
7	7	8	8	9	9	11	6	— 12	— 13	— 14	— 9	— 1	—
8	3	0	2	3	4	5	6	— 7	— 6	— 5	— 7	— 3	—
9	2	6	8	5	8	8	5	7	9	9	1	— 10	—
10	8	5	— 1	— 10	— 5	— 5	7	— 13	— 17	— 16	— 5	3	—
11	1	4	2	— 1	2	9	9	13	6	1	— 4	— 12	—
12	0	6	4	3	— 2	— 4	— 2	3	3	— 2	— 8	— 6	—
13	1	1	2	3	3	4	4	12	4	— 4	— 8	— 4	—
14	4	2	4	2	2	0	— 4	— 6	— 7	— 6	— 3	— 3	—
15	3	1	3	2	3	— 1	— 11	— 15	— 7	1	4	3	—
16	0	1	— 3	1	3	6	6	3	3	0	— 8	— 8	—
17	0	0	2	— 2	— 1	1	— 1	4	— 1	— 1	3	— 1	—
18	5	7	4	5	— 2	— 1	— 3	— 10	— 4	— 5	0	— 1	—
19	9	3	3	2	3	2	— 1	— 5	0	— 1	5	1	—
20	— 3	— 8	— 8	— 5	— 6	— 10	— 9	— 7	— 4	— 5	3	14	—
21	2	1	0	1	4	8	6	— 4	— 3	1	— 1	0	—
22	3	4	2	2	5	3	— 9	— 16	— 3	— 7	2	— 4	—
23	— 1	— 1	— 1	0	0	5	14	11	13	7	2	— 1	—
24	7	6	7	5	4	2	4	0	— 1	— 5	— 9	— 8	—
25	— 3	— 2	2	1	6	7	6	7	8	6	6	0	—
26	3	— 2	— 5	— 5	— 3	— 3	3	5	0	2	3	1	—
27	— 3	— 8	— 16	— 16	— 16	— 16	— 14	3	14	15	21	18	—
28	— 24	— 10	— 8	— 3	— 5	— 3	3	12	14	18	17	13	—
29	0	4	19	11	5	4	1	— 3	— 6	— 3	2	7	—
30	6	3	1	1	— 3	— 4	— 2	— 3	— 3	0	— 4	— 5	—
Hourly Amount.	134	123	145	118	137	153	174	210	173	168	164	136	—

NOVEMBER.

Mean Batavia Time.	1 P.M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 3	8	16	8	9	1	11	— 5	20	1	28	14	191
2	4	4	4	1	2	— 2	— 9	1	1	— 9	2	2	104
3	— 1	9	5	— 4	— 7	— 5	1	— 3	6	4	— 1	— 6	85
4	0	— 3	1	9	8	5	1	0	— 1	7	6	0	94
5	5	0	— 1	0	4	5	13	9	5	3	— 2	— 7	105
6	1	— 3	— 5	— 5	— 4	— 3	0	4	— 1	1	— 2	2	107
7	4	4	8	8	1	0	0	3	0	— 1	— 4	— 2	142
8	1	5	— 1	— 1	— 4	— 5	— 4	— 3	— 3	— 2	— 4	— 2	86
9	— 10	— 9	— 10	— 12	— 8	— 4	— 4	0	1	3	2	6	147
10	9	9	11	9	3	0	0	0	— 3	— 3	— 7	— 3	152
11	— 9	— 4	0	0	— 2	— 5	0	2	— 4	0	2	— 5	97
12	0	0	1	5	2	— 1	— 2	— 3	— 5	— 2	— 2	— 1	67
13	0	0	4	5	1	— 2	— 2	— 1	— 3	— 2	— 4	0	74
14	2	5	3	7	5	4	2	1	— 2	— 2	— 4	— 1	81
15	2	1	— 4	— 6	— 1	2	1	1	— 3	2	3	— 5	85
16	— 3	2	— 2	0	0	3	1	— 4	— 2	0	— 3	— 1	63
17	— 4	— 8	— 8	3	2	0	— 6	10	12	10	6	— 4	90
18	— 2	— 3	4	4	6	0	0	— 4	1	4	— 8	4	87
19	— 3	— 6	— 11	— 9	— 3	2	2	3	— 3	1	— 2	— 3	83
20	12	11	8	8	7	6	4	3	0	1	— 3	— 1	146
21	— 4	— 6	— 2	— 5	— 8	— 1	2	5	4	3	— 1	— 1	73
22	— 5	0	9	10	7	5	8	— 3	— 5	— 6	— 7	— 4	129
23	— 7	— 9	— 8	— 11	— 2	— 2	— 3	— 3	— 1	2	0	8	112
24	— 6	0	1	6	3	— 2	— 2	— 4	— 6	— 6	— 7	— 7	108
25	— 7	— 12	— 10	— 8	— 7	— 1	— 1	3	0	— 6	3	6	118
26	— 2	— 6	— 4	— 6	— 3	4	13	13	9	4	3	— 11	113
27	19	12	5	0	— 2	— 2	— 4	— 9	— 1	— 1	0	2	217
28	8	— 6	— 14	— 14	— 13	— 14	— 16	— 15	— 7	2	8	19	266
29	4	— 2	— 7	— 9	— 5	— 2	— 4	2	— 5	1	3	0	109
30	— 6	5	7	8	10	13	0	1	— 4	— 4	— 10	— 3	106
Hourly Amount.	143	152	174	181	139	101	116	118	118	93	137	130	3437

EASTERLY DECLINATION. D.

DEVIATIONS. — UNITY = 0'.1.

DECEMBER.

Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 8	— 7	— 7	— 1	— 5	6	8	8	11	7	— 3	— 2	—
2	— 6	— 2	— 4	— 5	— 3	2	6	7	3	2	— 2	— 1	—
3	3	— 3	— 5	— 7	— 4	— 3	2	7	8	4	0	1	—
4	— 5	— 5	— 4	— 3	— 1	6	4	4	4	3	0	4	—
5	— 2	— 2	— 2	— 1	— 1	2	4	3	— 1	1	1	1	—
6	4	1	0	1	0	— 3	— 3	— 5	— 2	3	5	9	—
7	— 3	— 3	0	— 1	0	2	4	0	0	3	— 1	— 4	—
8	— 3	— 3	3	2	— 2	— 5	— 9	— 2	9	7	9	12	—
9	7	6	7	7	7	5	0	— 6	— 9	— 12	— 11	— 14	—
10	4	1	3	5	2	4	3	— 2	— 4	— 7	— 11	— 9	—
11	1	4	4	3	4	7	8	0	— 2	— 4	— 15	— 19	—
12	— 2	2	— 1	— 2	— 2	— 6	— 3	0	— 2	2	6	5	—
13	— 1	0	— 2	— 1	— 1	— 3	3	3	7	7	0	— 6	—
14	— 1	— 5	— 8	— 12	— 6	— 5	— 2	3	6	7	3	6	—
15	— 2	0	1	2	3	4	5	0	— 1	— 2	— 6	— 2	—
16	— 2	— 2	— 3	— 3	— 5	— 3	3	12	14	11	6	— 5	—
17	2	1	0	0	— 4	— 14	— 8	— 1	8	5	4	4	—
18	— 4	— 3	— 5	— 5	— 5	— 3	— 4	4	6	10	9	3	—
19	0	— 1	— 2	— 2	— 3	1	— 1	1	0	7	— 5	— 4	—
20	— 4	— 3	— 3	2	— 1	3	— 4	6	0	0	7	— 1	—
21	— 2	— 2	— 2	— 3	— 2	— 3	— 3	— 6	9	10	10	11	—
22	1	0	1	2	1	— 1	3	1	— 2	— 4	— 1	0	
23	3	5	10	7	8	0	— 3	— 8	— 6	— 6	4	— 2	
24	5	5	7	4	5	1	— 8	— 19	— 15	— 5	11	0	—
25	2	2	2	1	2	— 6	— 8	— 4	— 7	0	12	15	—
26	5	4	5	4	5	1	— 5	— 6	— 13	— 9	4	16	—
27	5	3	1	3	0	4	— 4	— 5	— 3	— 8	— 4	— 2	—
28	4	5	3	— 2	6	7	6	2	— 11	— 16	— 14	— 9	—
29	2	2	0	1	— 1	1	9	9	4	— 2	— 6	— 9	—
30	— 1	— 2	0	2	3	6	7	4	— 2	— 8	— 6	— 2	—
31	2	1	1	3	3	— 3	— 2	— 3	— 3	— 3	— 3	3	—
Hourly Amount.	96	85	96	97	95	120	142	141	172	175	179	181	—

DECEMBER.

Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	0	4	8	4	0	0	— 2	— 8	— 3	— 3	— 5	— 2	112
2	— 1	— 2	2	3	1	7	3	— 1	— 3	— 6	0	— 3	75
3	3	— 1	— 4	— 2	1	3	3	1	— 2	— 2	0	— 4	73
4	5	2	2	— 3	— 3	— 3	— 1	— 1	0	1	0	— 4	68
5	1	2	— 1	— 8	— 5	1	1	2	3	1	— 3	2	51
6	6	6	5	— 2	— 2	— 2	— 4	3	— 1	— 6	— 6	— 5	84
7	— 3	3	4	— 2	— 3	0	0	0	1	2	1	— 5	45
8	14	4	2	— 2	— 6	— 4	— 2	— 3	— 2	2	5	3	115
9	— 13	— 8	— 7	— 4	— 2	1	0	1	3	5	5	7	147
10	— 6	3	3	6	7	1	0	— 3	— 2	0	1	4	91
11	— 10	0	0	1	— 2	— 2	— 1	1	3	5	5	3	104
12	5	6	1	— 4	— 6	0	— 1	0	1	0	1	— 1	59
13	— 5	— 2	2	2	3	1	2	4	4	4	0	1	64
14	11	10	6	0	— 4	— 5	— 7	— 6	— 4	— 1	— 4	— 4	126
15	0	— 2	— 4	— 2	1	4	3	2	— 1	— 2	— 5	— 4	58
16	— 12	— 13	— 8	— 2	2	5	6	5	4	7	4	1	138
17	— 3	— 7	— 4	8	8	3	— 2	— 2	— 1	— 1	— 1	— 3	94
18	1	3	4	5	3	— 3	— 3	— 2	0	0	0	0	85
19	— 6	0	2	4	8	3	— 1	0	0	0	— 3	— 5	59
20	2	— 10	— 10	0	2	3	2	0	2	2	3	— 3	73
21	2	— 4	— 9	— 2	0	1	1	— 1	— 1	— 1	0	1	86
22	— 2	— 4	0	3	1	4	4	— 2	— 1	— 3	— 2	— 1	44
23	0	— 4	— 5	— 1	— 3	— 3	0	3	4	2	3	5	95
24	2	0	2	0	— 2	— 2	1	2	— 5	— 2	0	2	105
25	10	2	0	— 4	— 2	— 3	— 2	— 5	— 4	— 1	— 1	2	97
28	10	3	— 1	— 3	— 3	— 3	— 3	— 2	— 5	2	0	3	115
27	6	13	2	6	— 1	— 1	— 1	0	— 6	— 4	— 2	3	87
28	— 7	— 9	— 3	0	4	6	4	5	4	— 3	— 5	2	137
29	— 11	1	6	2	3	— 5	1	1	1	0	1	— 1	79
30	1	0	0	— 1	— 3	— 6	3	4	7	3	6	1	78
31	— 2	0	0	— 1	0	0	1	2	1	0	— 1	2	40
Hourly Amount.	160	128	107	87	91	85	65	72	79	71	73	87	2684

HORIZONTAL FORCE. D.

DEVIATIONS — UNITY = 0.00001 C. G. S.

DECEMBER.	Mean Batavia Time. 1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	5	6	3	5	4	1	— 4	— 3	— 7	— 4	3	8	—
2	5	5	1	3	0	1	— 2	— 3	— 4	— 6	— 3	— 1	—
3	— 4	— 3	4	2	0	2	4	5	7	3	5	2	—
4	7	— 4	— 2	— 3	0	— 1	0	4	5	1	1	2	—
5	0	— 4	0	1	3	3	2	1	2	1	0	— 1	—
6	— 2	— 1	— 4	— 7	— 1	0	6	6	6	5	— 3	— 4	—
7	— 2	12	— 2	— 5	— 5	7	5	5	— 2	— 7	— 6	— 11	—
8	— 12	— 1	— 7	— 2	— 5	— 3	— 1	— 5	2	3	0	— 6	—
9	— 2	— 4	— 4	— 2	— 7	0	1	6	1	— 2	— 1	1	—
10	2	3	— 6	— 7	— 7	— 2	— 6	— 8	— 8	— 1	2	6	—
11	0	— 2	— 7	— 7	— 7	— 8	— 3	2	— 2	— 7	— 3	1	—
12	— 3	— 5	— 5	— 2	— 2	0	2	5	2	2	5	5	—
13	4	1	1	— 4	— 2	— 7	— 9	— 7	— 13	— 11	— 5	1	—
14	3	2	6	6	9	11	13	13	12	5	— 1	— 6	—
15	1	2	0	— 1	1	3	2	1	— 5	1	2	6	—
16	0	— 2	— 4	— 5	— 3	— 7	— 7	— 7	— 8	— 4	0	8	—
17	1	— 2	— 1	2	— 3	— 3	4	— 3	— 3	0	2	— 3	—
18	3	4	4	— 1	— 1	0	— 3	1	2	0	2	5	—
19	2	4	4	3	1	— 4	— 6	— 11	— 2	— 1	3	— 3	—
20	2	— 1	1	2	1	3	3	— 9	4	7	6	0	—
21	— 2	— 1	4	0	6	— 2	1	— 3	— 7	— 1	1	5	—
22	— 3	3	7	1	— 1	0	0	6	4	— 5	— 7	— 3	—
23	— 4	— 4	— 4	11	10	10	5	6	8	9	— 6	— 11	—
24	— 2	— 1	1	0	0	0	— 2	0	— 6	— 7	— 2	6	—
25	— 4	— 1	— 3	— 6	— 4	— 3	— 10	— 6	7	— 7	7	3	—
26	— 5	— 5	0	— 3	— 1	0	— 1	— 3	— 3	1	— 2	0	—
27	10	3	11	6	15	7	12	10	10	9	— 1	— 15	—
28	10	10	13	32	3	6	5	3	0	5	— 1	— 3	—
29	— 9	— 11	— 4	— 7	— 2	0	— 5	3	2	3	5	0	—
30	2	2	— 1	— 4	— 2	— 2	— 1	3	2	0	— 3	2	—
31	— 3	— 4	— 4	— 7	— 3	— 5	— 7	— 9	— 5	1	3	8	—
Hourly Amount.	114	113	118	147	109	101	132	157	151	119	91	136	—

DECEMBER.	Mean Batavia Time. 1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	13	11	— 5	— 9	— 5	— 6	— 6	4	— 1	— 2	2	4	121
2	2	5	2	3	— 1	— 5	— 5	12	— 6	— 3	— 8	— 7	93
3	— 6	— 7	— 6	— 2	— 2	3	— 4	— 2	1	5	— 3	5	87
4	3	2	1	4	0	0	0	— 1	— 2	— 3	— 3	— 2	51
5	— 2	— 4	— 1	0	— 2	— 1	0	— 3	— 3	— 4	3	— 2	40
6	— 21	— 6	— 6	5	12	11	16	12	14	— 1	18	— 9	179
7	— 17	— 13	— 9	— 6	1	4	6	7	6	10	— 1	0	149
8	— 2	4	7	7	7	— 1	— 2	— 2	— 3	— 2	— 2	0	86
9	3	4	7	1	1	5	3	1	2	2	— 1	0	61
10	5	9	11	7	3	— 6	— 3	3	2	2	3	1	113
11	6	6	6	4	1	— 1	— 1	— 3	1	1	— 1	3	83
12	2	— 1	0	— 5	— 2	1	4	6	7	7	6	6	85
13	9	9	9	3	6	2	— 7	— 14	— 15	— 14	— 11	— 2	166
14	— 4	— 8	— 5	— 5	0	2	4	5	— 4	— 4	— 5	— 2	135
15	— 1	— 2	— 7	— 5	— 4	— 4	— 3	4	0	2	2	3	62
16	4	15	11	12	4	7	6	2	7	2	— 3	— 2	130
17	— 2	— 2	— 4	— 3	— 4	— 8	— 8	— 3	— 4	— 2	— 1	2	70
18	8	3	— 4	— 2	— 3	— 1	2	0	— 3	— 1	0	2	55
19	4	5	6	1	4	3	0	— 2	5	— 3	— 11	— 4	92
20	— 2	— 9	— 4	— 3	5	5	11	— 6	— 11	— 4	— 3	2	104
21	7	2	5	3	0	1	— 2	— 2	— 1	— 6	— 5	— 5	72
22	2	4	2	3	3	3	— 7	— 4	— 5	— 3	— 7	— 3	86
23	— 19	— 13	— 5	— 6	— 5	— 4	1	6	8	8	7	5	175
24	6	9	6	— 3	0	1	— 2	— 2	6	1	— 8	— 4	75
25	1	2	4	2	7	2	1	6	— 3	— 1	— 1	2	93
26	3	0	2	1	0	— 2	— 2	— 4	10	0	3	3	54
27	— 33	— 42	— 32	— 22	— 25	— 14	— 14	— 18	3	13	22	10	357
28	5	6	3	3	— 3	2	3	— 2	1	5	7	— 13	144
29	4	0	6	0	— 9	— 7	1	0	3	5	6	3	95
30	7	5	3	4	5	4	2	— 1	— 6	— 5	— 11	— 3	80
31	13	3	0	4	5	6	3	0	— 3	— 7	— 2	2	107
Hourly Amount	216	211	179	138	129	122	129	137	146	128	166	111	3300

VERTICAL FORCE. D.

DEVIATIONS. — UNITY = 0,00001 C. G. S.

DECEMBER. Mean Batavia Time.	1 A. M.	2	3	4	5	6	7	8	9	10	11	12	—
1	— 5	— 5	— 3	— 6	— 7	— 8	— 2	9	7	1	— 4	— 3	—
2	— 4	— 5	0	0	0	— 6	— 2	1	2	5	5	— 1	—
3	1	1	— 4	— 1	1	2	— 2	— 10	— 6	2	— 3	— 2	—
4	— 6	3	1	0	1	— 1	3	6	1	0	— 4	— 8	—
5	— 1	— 1	— 2	— 1	— 2	— 3	1	1	0	— 5	— 10	— 5	—
6	5	4	6	7	4	5	4	— 7	— 10	— 8	— 4	— 7	—
7	— 2	— 11	— 6	— 5	— 5	— 11	— 8	16	20	20	13	4	—
8	10	1	5	1	4	5	6	9	2	1	4	2	—
9	— 3	— 3	— 5	— 4	— 3	— 3	3	11	10	7	5	8	—
10	4	1	7	9	9	3	9	12	14	9	3	0	—
11	— 1	1	1	2	0	0	3	3	13	16	8	2	—
12	4	5	4	5	2	5	2	— 17	— 10	— 7	2	3	—
13	— 3	0	2	6	3	5	— 3	— 10	— 5	4	10	11	—
14	— 1	— 1	0	0	— 2	— 2	— 2	— 2	— 10	2	— 4	— 10	—
15	— 1	— 4	— 4	— 3	— 4	— 5	— 1	— 1	— 1	— 3	— 4	— 6	—
16	— 2	— 1	— 1	— 3	— 4	— 5	— 8	2	1	1	3	— 1	—
17	3	5	6	7	9	11	— 9	— 12	— 10	— 4	— 4	4	—
18	— 5	— 5	— 3	— 3	— 3	— 4	— 3	0	1	1	— 4	0	—
19	— 3	— 3	— 1	1	— 1	3	6	16	10	4	12	3	—
20	2	4	3	2	3	0	— 1	— 1	— 5	— 8	0	8	—
21	— 1	1	— 2	0	— 2	3	— 4	— 6	— 1	4	5	2	—
22	5	0	0	6	9	11	9	— 11	— 7	2	3	4	—
23	4	3	3	— 5	0	6	12	0	— 5	— 11	— 2	4	—
24	1	1	— 2	1	— 1	5	13	24	15	2	7	4	—
25	6	5	7	9	8	12	3	— 7	— 13	— 14	— 24	— 7	-
26	5	7	2	5	4	6	7	— 1	— 10	— 12	— 14	— 11	—
27	— 9	— 5	— 8	— 8	— 16	— 15	— 11	3	6	7	— 3	0	—
28	— 6	— 4	— 7	— 18	— 2	— 7	— 6	3	3	— 1	3	— 2	—
29	5	2	— 1	— 5	— 3	— 7	— 13	— 14	— 7	— 2	5	8	—
30	0	0	3	— 1	— 2	— 8	— 7	— 3	4	3	8	3	—
31	3	3	3	5	1	4	0	— 12	— 7	— 13	— 12	— 7	—
Hourly Amount.	111	95	102	129	115	171	163	230	216	179	192	140	—

DECEMBER. Mean Batavia Time.	1 P. M.	2	3	4	5	6	7	8	9	10	11	12	Daily Amount.
1	— 3	0	12	10	8	6	4	— 1	1	— 1	— 5	— 5	116
2	— 3	— 5	— 2	2	7	6	6	— 5	4	3	7	4	85
3	0	5	8	0	— 3	— 4	2	3	— 2	— 2	1	— 1	66
4	— 5	1	— 2	— 2	2	3	2	2	2	1	1	0	57
5	5	3	1	8	2	— 1	1	2	2	2	— 3	0	62
6	4	— 4	3	— 4	— 6	— 4	— 5	— 3	— 4	7	— 9	5	129
7	0	— 6	— 2	— 3	— 4	— 5	— 5	— 5	— 2	— 2	6	4	165
8	— 5	— 3	— 4	— 3	— 3	1	0	— 1	— 3	— 4	— 3	— 5	85
9	— 1	— 12	— 12	— 5	— 4	— 6	— 5	— 2	— 2	— 3	1	1	119
10	— 22	— 18	— 16	— 9	0	3	2	0	1	— 1	0	2	154
11	— 6	— 6	— 9	— 9	— 5	— 2	— 2	0	0	2	5	4	100
12	2	7	11	10	5	— 5	— 5	— 5	— 5	— 3	— 2	— 5	131
13	— 1	— 8	— 9	— 1	— 3	— 2	4	6	7	6	4	1	114
14	— 9	4	8	8	1	— 2	— 4	— 2	2	2	1	0	79
15	2	5	7	6	1	1	1	— 3	1	— 1	— 1	— 3	69
16	2	— 1	2	0	1	— 3	— 2	— 2	— 3	1	3	2	54
17	9	8	— 5	— 12	— 1	6	8	5	3	— 1	— 1	— 4	147
18	5	6	4	1	0	— 2	— 2	— 2	— 1	— 2	— 4	— 3	64
19	— 1	— 12	— 10	— 10	— 8	— 6	0	3	— 2	3	12	8	138
20	3	2	— 6	— 7	— 8	— 2	— 3	7	7	3	2	— 3	90
21	1	1	— 3	— 7	— 3	— 2	1	3	3	3	3	3	64
22	— 1	— 3	— 6	— 9	— 8	— 4	4	3	4	3	6	4	122
23	7	— 5	— 10	— 7	— 6	— 6	— 7	— 8	— 7	— 4	— 5	— 4	131
24	— 5	— 12	— 11	— 6	— 3	— 3	— 3	0	— 2	— 1	7	6	135
25	11	13	7	0	— 11	— 4	— 3	— 6	0	— 1	— 2	0	173
26	— 3	11	17	8	6	4	1	1	— 5	— 4	— 5	— 6	155
27	11	29	25	23	17	7	3	1	— 7	— 14	— 18	— 13	259
28	— 2	6	8	6	5	— 1	1	3	2	1	— 2	8	107
29	14	— 4	— 6	1	8	7	1	0	— 5	— 4	— 5	— 1	128
30	— 3	— 5	— 4	3	6	7	2	2	4	5	5	5	93
31	2	9	4	11	9	3	1	0	— 1	— 3	— 6	— 9	128
Hourly Amount.	148	214	234	191	154	118	90	86	94	93	135	119	3519

RESULTS OF METEOROLOGICAL OBSERVATIONS

1889.

TABLE 1. Mean height of the Barometer in 1889.

Barometer at 0°C = 750^{mm} + the numbers in the Table.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1 a. m.	9.83	9.89	10.30	8.62	8.69	8.91	8.86	9.77	9.09	9.04	7.88	7.77	9.05
2	9.45	9.42	9.89	8.21	8.29	8.56	8.47	9.44	8.74	8.66	7.43	7.48	8.67
3	9.30	9.12	9.64	8.00	7.95	8.25	8.12	9.16	8.52	8.49	7.22	7.30	8.42
4	9.27	9.06	9.57	7.95	7.87	8.17	8.06	9.10	8.47	8.59	7.24	7.26	8.38
5	9.57	9.27	9.72	8.07	8.08	8.36	8.23	9.26	8.62	8.83	7.57	7.53	8.59
6	10.00	9.57	10.04	8.42	8.34	8.61	8.51	9.57	8.99	9.24	7.94	8.03	8.94
7	10.58	10.04	10.53	8.97	8.78	8.98	8.93	10.07	9.45	9.79	8.44	8.48	9.42
8	10.88	10.57	10.97	9.41	9.25	9.44	9.42	10.43	9.83	10.18	8.81	8.78	9.83
9	10.94	10.79	11.24	9.64	9.44	9.65	9.56	10.61	10.03	10.25	8.80	8.85	9.98
10	10.75	10.66	11.23	9.59	9.30	9.55	9.44	10.38	9.84	10.06	8.66	8.62	9.84
11	10.35	10.31	10.90	9.17	8.97	9.24	9.06	9.88	9.28	9.62	8.24	8.20	9.43
12	9.84	9.76	10.30	8.49	8.36	8.63	8.52	9.22	8.66	8.92	7.69	7.71	8.84
1 p. m.	9.17	9.11	9.51	7.81	7.71	8.03	7.92	8.57	7.95	8.12	6.96	7.01	8.15
2	8.47	8.51	8.86	7.16	7.12	7.40	7.29	8.00	7.41	7.61	6.44	6.31	7.55
3	7.91	8.09	8.40	6.66	6.79	7.12	6.96	7.55	7.12	7.27	6.10	5.94	7.16
4	7.90	7.92	8.35	6.73	6.78	7.16	6.93	7.49	7.11	7.27	6.12	5.87	7.13
5	8.42	8.24	8.66	7.21	7.16	7.52	7.25	7.76	7.43	7.66	6.47	6.20	7.50
6	8.96	8.74	9.23	7.75	7.60	8.01	7.69	8.20	7.93	8.26	7.10	6.75	8.02
7	9.58	9.25	9.76	8.31	8.19	8.46	8.14	8.84	8.53	8.73	7.62	7.31	8.56
8	10.05	9.77	10.26	8.82	8.81	8.96	8.72	9.47	9.08	9.22	8.13	7.86	9.09
9	10.46	10.31	10.71	9.23	9.20	9.34	9.09	9.94	9.52	9.59	8.57	8.35	9.52
10	10.66	10.59	11.03	9.44	9.34	9.48	9.27	10.23	9.78	9.87	8.66	8.46	9.73
11	10.60	10.59	11.02	9.42	9.26	9.43	9.23	10.34	9.77	9.74	8.59	8.44	9.70
12	10.29	10.32	10.74	9.12	9.08	9.28	9.14	10.17	9.48	9.38	8.31	8.17	9.45
Monthly Means.	9.72	9.58	10.04	8.43	8.35	8.61	8.45	9.31	8.78	8.93	7.71	7.61	8.79

TABLE 2. Mean Temperature of the Air in 1889.

Centesimal degrees.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	24°.71	24°.82	24°.91	25°.25	25°.35	24°.63	24°.29	24°.34	24°.43	24°.23	24°.39	24°.14	24°.62
2	24.49	24.59	24.71	25.10	25.08	24.48	24.11	24.12	24.20	24.00	24.15	23.87	24.41
3	24.34	24.39	24.53	24.96	24.85	24.29	23.91	23.84	24.02	23.81	23.97	23.65	24.21
4	24.20	24.19	24.33	24.79	24.67	24.12	23.75	23.61	23.80	23.68	23.77	23.41	24.02
5	24.02	23.97	24.13	24.66	24.53	23.96	23.59	23.37	23.60	23.55	23.61	23.25	23.85
6	23.93	23.82	23.99	24.53	24.37	23.83	23.41	23.13	23.42	23.43	23.61	23.20	23.72
7	24.22	24.10	24.24	24.79	24.68	24.00	23.47	23.43	23.85	24.02	24.32	23.82	24.08
8	25.16	25.07	25.33	25.87	25.72	24.92	24.33	24.81	25.32	25.31	25.60	25.19	25.22
9	26.41	26.31	26.79	27.39	27.14	26.27	25.81	26.64	27.07	26.76	26.92	26.62	26.68
10	27.44	27.45	27.90	28.60	28.42	27.48	26.97	28.15	28.68	28.24	27.98	27.78	27.93
11	28.45	28.33	28.75	29.61	29.31	28.38	27.88	29.32	29.65	29.28	28.82	28.92	28.90
12	28.98	28.78	29.22	30.17	29.96	29.07	28.53	30.07	30.02	29.73	29.40	29.46	29.45
1 p. m.	29.32	29.10	29.08	30.27	30.36	29.33	28.96	30.42	30.09	29.58	29.54	29.61	29.64
2	29.32	29.15	29.10	30.35	30.29	29.31	29.23	30.46	30.02	28.95	29.26	29.60	29.59
3	29.14	28.86	28.88	30.22	29.95	28.96	29.01	30.07	29.59	28.82	28.82	28.83	29.26
4	28.48	28.35	28.54	29.70	29.45	28.49	28.69	29.47	29.07	28.43	28.39	28.28	28.79
5	27.79	27.67	27.97	28.81	28.95	28.00	28.01	28.93	28.47	27.81	27.83	27.77	28.17
6	27.04	27.03	27.21	27.97	28.13	27.03	27.02	28.01	27.73	26.99	27.10	27.10	27.36
7	26.39	26.46	26.57	27.23	27.51	26.35	26.29	27.19	26.91	26.19	26.51	26.44	26.67
8	26.01	26.10	26.15	26.69	26.95	25.90	25.73	26.33	26.23	25.68	26.03	25.91	26.14
9	25.65	25.80	25.83	26.27	26.52	25.52	25.32	25.77	25.73	25.30	25.66	25.48	25.74
10	25.42	25.51	25.56	25.99	26.19	25.18	24.97	25.34	25.31	25.00	25.28	25.09	25.40
11	25.15	25.28	25.33	25.72	25.87	24.94	24.70	25.00	24.95	24.72	24.94	24.76	25.11
12	24.94	25.05	25.11	25.48	25.58	24.76	24.51	24.64	24.69	24.50	24.65	24.46	24.86
Monthly Means.	26.30	26.25	26.42	27.10	27.08	26.22	25.94	26.52	26.53	26.17	26.27	26.11	26.41

TABLE 3. Mean relative Humidity of the Air in 1889.

Saturation = 1000.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	935	918	940	937	923	929	930	897	881	921	891	879	915
2	939	927	941	941	931	934	933	904	890	928	900	885	921
3	940	931	943	944	933	937	936	914	893	934	904	896	925
4	945	936	946	947	936	942	936	916	896	935	910	903	929
5	947	942	947	949	939	944	936	917	902	934	914	911	932
6	949	945	949	951	943	944	937	920	905	935	910	911	933
7	944	943	943	936	930	943	932	904	883	918	887	888	921
8	902	903	889	894	886	905	899	838	818	859	830	835	871
9	840	850	827	826	821	848	837	763	738	787	779	768	807
10	788	800	785	773	764	783	774	677	653	718	724	713	746
11	754	761	752	733	727	741	728	619	612	676	689	659	704
12	730	742	731	710	697	719	707	594	614	664	667	647	685
1 p. m.	719	731	750	717	682	713	697	598	624	672	671	654	685
2	719	729	751	710	689	722	693	597	625	701	678	656	689
3	730	736	751	718	710	742	702	627	641	710	698	696	705
4	762	761	758	746	733	761	723	649	658	719	721	720	726
5	791	793	787	788	764	786	758	667	689	751	740	731	753
6	829	829	826	832	801	829	810	723	740	799	775	753	795
7	866	870	863	869	835	864	848	771	780	835	798	780	831
8	880	889	888	893	863	891	876	815	814	868	816	800	857
9	899	907	903	913	883	898	893	839	838	883	837	821	876
10	911	914	915	922	900	907	908	856	851	893	856	841	889
11	923	914	923	928	909	917	917	870	861	903	873	858	900
12	932	920	929	935	918	923	922	884	872	912	883	866	908
Monthly Means.	857	858	860	855	838	855	843	782	778	827	806	795	829

TABLE 3A. Mean relative Humidity of the Air in 1889.

Calculated according to Weihrauch's method.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	933	916	936	935	920	928	927	895	879	920	890	879	914
2	937	925	939	941	929	932	931	902	888	927	900	886	920
3	939	929	941	943	931	936	934	912	892	934	903	896	925
4	943	934	943	945	934	940	935	914	896	934	910	903	928
5	946	941	945	948	937	943	934	915	901	934	914	911	931
6	948	944	948	949	941	943	935	920	904	935	911	910	933
7	944	943	943	938	929	943	931	904	885	919	888	891	922
8	907	907	895	898	891	910	900	845	822	864	833	838	876
9	845	854	833	833	829	856	840	770	741	795	781	771	812
10	794	805	790	778	769	790	778	682	656	724	725	715	750
11	757	765	757	739	730	745	731	620	612	679	691	660	706
12	732	746	734	715	698	721	709	594	612	664	667	646	685
1 p. m.	719	733	748	718	683	713	696	599	624	670	670	648	684
2	720	731	750	713	690	720	691	597	625	696	678	647	687
3	729	737	750	720	710	742	702	629	638	705	696	685	703
4	760	758	758	747	732	758	722	651	655	711	719	710	723
5	789	791	785	787	762	783	757	667	686	741	739	721	750
6	826	826	822	831	799	828	808	722	738	793	774	747	792
7	862	866	859	866	832	861	844	768	777	833	797	774	828
8	877	885	884	889	859	887	872	811	810	863	815	797	854
9	895	904	899	909	879	896	889	836	835	880	836	818	873
10	907	911	912	918	896	904	904	852	847	890	855	840	886
11	920	912	919	924	905	915	913	865	859	900	872	856	897
12	929	919	926	932	914	921	919	880	869	909	882	865	906
Monthly Means.	851	854	855	850	832	850	836	771	768	819	801	786	822

TABLE 4. Mean Tension of the Atmospheric vapour in 1889.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1 a. m.	21.59	21.34	21.93	22.36	22.13	21.37	20.93	20.26	20.02	20.69	20.22	19.66	21.04
2	21.42	21.27	21.73	22.29	21.97	21.28	20.78	20.16	19.94	20.56	20.14	19.50	20.92
3	21.26	21.10	21.55	22.16	21.74	21.13	20.61	20.03	19.80	20.47	20.00	19.46	20.77
4	21.17	20.96	21.35	21.98	21.57	21.01	20.43	19.80	19.63	20.33	19.91	19.34	20.62
5	21.02	20.83	21.14	21.87	21.46	20.86	20.22	19.56	19.52	20.17	19.81	19.32	20.48
6	20.95	20.71	21.01	21.74	21.36	20.70	20.03	19.38	19.37	20.05	19.74	19.25	20.36
7	21.21	21.05	21.23	21.82	21.47	20.91	20.02	19.39	19.45	20.41	20.09	19.55	20.55
8	21.56	21.45	21.51	22.29	21.90	21.33	20.37	19.67	19.74	20.73	20.33	19.96	20.90
9	21.66	21.75	21.82	22.60	22.15	21.73	20.77	19.99	19.73	20.78	20.62	20.00	21.13
10	21.59	21.92	22.07	22.66	22.16	21.55	20.60	19.35	19.19	20.63	20.36	19.85	20.99
11	21.84	21.91	22.21	22.79	22.15	21.42	20.40	18.82	18.93	20.56	20.36	19.56	20.90
12	21.90	21.93	22.14	22.77	21.98	21.56	20.55	18.83	19.33	20.64	20.35	19.76	20.96
1 p. m.	21.83	21.96	22.39	23.02	22.00	21.64	20.67	19.37	19.77	20.65	20.59	20.00	21.15
2	21.84	21.96	22.46	22.95	22.12	21.83	20.86	19.34	19.73	20.66	20.51	19.95	21.18
3	21.77	21.77	22.17	23.01	22.32	22.04	20.92	19.92	19.67	20.77	20.50	20.21	21.26
4	21.97	21.75	21.99	23.17	22.38	21.93	21.13	19.92	19.59	20.48	20.67	20.28	21.27
5	21.89	21.81	22.03	23.19	22.62	22.01	21.29	19.78	19.83	20.60	20.56	20.00	21.30
6	21.95	21.93	22.08	23.30	22.62	21.98	21.43	20.31	20.41	21.02	20.63	19.91	21.46
7	22.05	22.25	22.20	23.29	22.74	21.99	21.45	20.59	20.49	21.06	20.54	19.87	21.54
8	21.92	22.25	22.29	23.15	22.71	22.04	21.45	20.68	20.52	21.18	20.40	19.81	21.53
9	21.93	22.32	22.26	23.08	22.67	21.76	21.35	20.62	20.53	21.09	20.49	19.83	21.49
10	21.92	22.12	22.20	22.93	22.65	21.52	21.26	20.49	20.32	20.96	20.48	19.88	21.39
11	21.87	21.84	22.09	22.71	22.45	21.47	21.12	20.38	20.16	20.85	20.47	19.87	21.27
12	21.80	21.70	21.95	22.59	22.29	21.39	21.02	20.29	20.11	20.79	20.35	19.74	21.16
Monthly Means.	21.66	21.66	21.91	22.66	22.15	21.52	20.82	19.87	19.82	20.67	20.34	19.77	21.07

TABLE 4A. Deficiency of Saturation for the year 1889.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1 a. m.	1.56	1.97	1.49	1.55	1.93	1.67	1.65	2.39	2.75	1.80	2.50	2.71	1.99
2	1.44	1.72	1.42	1.40	1.69	1.56	1.55	2.19	2.51	1.62	2.25	2.51	1.82
3	1.39	1.62	1.36	1.33	1.61	1.45	1.45	1.94	2.41	1.46	2.14	2.27	1.69
4	1.28	1.48	1.28	1.29	1.53	1.34	1.43	1.87	2.29	1.43	1.97	2.08	1.59
5	1.19	1.31	1.22	1.21	1.45	1.27	1.43	1.81	2.14	1.43	1.86	1.90	1.51
6	1.14	1.24	1.16	1.17	1.33	1.26	1.39	1.68	2.07	1.40	1.93	1.90	1.46
7	1.27	1.27	1.28	1.45	1.64	1.27	1.48	2.06	2.54	1.80	2.53	2.40	1.74
8	2.22	2.20	2.52	2.52	2.69	2.11	2.26	3.62	4.27	3.27	4.08	3.87	2.97
9	3.96	3.72	4.37	4.53	4.58	3.67	3.95	5.97	6.89	5.37	5.77	5.93	4.89
10	5.62	5.31	5.87	6.45	6.64	5.73	5.87	9.01	10.06	7.87	7.71	7.90	7.00
11	7.02	6.74	7.15	8.07	8.18	7.32	7.51	11.53	12.00	9.71	9.11	10.08	8.71
12	7.98	7.48	8.03	9.09	9.50	8.35	8.44	12.85	12.26	10.43	10.14	10.84	9.62
1 p. m.	8.52	8.00	7.53	9.03	10.21	8.72	9.04	12.96	11.94	10.16	10.15	10.86	9.76
2	8.51	8.09	7.50	9.25	9.96	8.50	9.32	13.06	11.86	9.04	9.73	10.89	9.64
3	8.13	7.77	7.41	8.95	9.14	7.67	8.88	11.76	11.15	8.70	8.97	9.28	8.98
4	6.94	6.94	7.02	7.85	8.20	6.99	8.13	10.70	10.32	8.34	8.08	8.29	8.15
5	5.87	5.76	6.02	6.27	7.08	6.09	6.83	9.88	9.06	7.20	7.27	7.73	7.09
6	4.62	4.63	4.77	4.75	5.70	4.58	5.11	7.81	7.26	5.48	6.04	6.76	5.63
7	3.54	3.44	3.66	3.59	4.59	3.54	3.98	6.22	5.89	4.22	5.23	5.79	4.47
8	3.09	2.89	2.93	2.89	3.73	2.81	3.15	4.82	4.82	3.35	4.64	5.05	3.67
9	2.56	2.38	2.49	2.32	3.11	2.54	2.66	4.04	4.07	2.89	4.01	4.41	3.13
10	2.24	2.16	2.15	2.05	2.63	2.29	2.25	3.55	3.68	2.59	3.47	3.80	2.74
11	1.90	2.11	1.94	1.88	2.36	2.00	2.02	3.17	3.32	2.32	3.00	3.35	2.44
12	1.67	1.92	1.76	1.65	2.09	1.83	1.86	2.77	3.02	2.08	2.72	3.07	2.20
Monthly Means.	3.79	3.71	3.72	4.01	4.49	3.80	4.09	5.91	5.98	4.58	5.06	5.39	4.55

TABLE 5. Hourly, monthly and annual mean amount of cloud in 1889.

A sky free from cloud is represented by 0, entirely overcast by 10.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August	September.	October.	November.	December.	Annual Means.
1 a. m.	6.0	6.7	5.2	5.7	5.3	6.3	5.7	4.2	5.4	5.5	6.7	5.5	5.67
2	5.9	6.5	4.6	5.4	4.8	6.4	6.5	3.8	5.4	6.0	6.9	5.4	5.62
3	5.8	6.0	4.7	4.7	4.9	6.1	6.4	3.8	4.9	5.6	6.8	5.1	5.39
4	5.8	6.3	4.7	4.5	4.9	6.3	6.4	4.1	5.1	5.6	6.3	5.1	5.42
5	6.2	6.3	5.0	4.8	5.4	6.4	6.4	4.2	5.5	6.1	7.1	6.5	5.81
6	6.6	6.9	5.8	5.4	6.6	6.8	6.7	4.8	5.5	6.3	7.8	6.8	6.33
7	7.6	6.9	5.7	5.3	6.5	6.5	6.5	3.9	5.3	6.5	8.4	6.9	6.32
8	7.1	6.3	4.5	4.5	5.7	5.8	6.0	2.6	4.9	6.2	7.7	6.1	5.61
9	6.8	6.1	5.0	4.3	6.0	5.9	6.3	2.6	4.7	6.1	7.7	6.0	5.62
10	6.8	6.7	5.6	5.1	6.4	5.8	6.5	3.3	5.3	7.1	8.3	6.1	6.07
11	6.9	7.5	6.8	5.8	6.8	6.7	6.6	4.5	6.2	7.4	8.3	6.7	6.68
12	7.2	7.7	6.9	6.7	6.8	6.7	7.1	5.3	6.9	7.8	8.6	7.0	7.05
1 p. m.	7.3	7.7	7.2	6.5	6.4	7.8	7.0	5.2	6.5	7.5	7.8	7.8	7.05
2	6.4	7.3	6.5	6.5	6.3	7.8	6.4	3.6	6.0	7.2	7.8	7.4	6.59
3	6.2	7.0	6.1	6.1	6.3	7.3	6.4	3.4	5.0	6.8	7.9	8.0	6.37
4	6.8	7.5	6.9	6.9	6.4	7.4	5.9	3.2	5.5	6.5	8.2	8.1	6.60
5	7.7	7.7	8.2	8.0	7.0	7.8	6.1	3.7	6.3	7.5	8.8	8.2	7.23
6	7.9	7.7	7.8	7.7	7.5	8.6	6.4	4.6	6.5	8.1	8.7	7.3	7.38
7	7.7	7.1	7.6	7.3	6.3	7.4	5.3	4.3	5.9	6.5	7.7	6.4	6.61
8	7.5	6.9	7.2	6.8	6.1	7.3	4.9	4.1	5.4	6.2	7.3	5.9	6.28
9	7.3	6.4	6.6	6.1	6.2	6.8	5.0	4.4	4.7	6.3	7.7	5.9	6.10
10	7.5	6.9	6.1	5.8	6.2	7.1	5.5	4.2	5.1	6.1	7.1	5.7	6.09
11	6.6	7.2	5.7	5.8	5.8	6.7	5.5	3.8	5.0	6.0	7.4	5.9	5.94
12	6.3	7.1	5.4	5.8	5.7	6.3	5.5	3.8	4.8	5.1	6.9	5.5	5.68
Monthly Means.	6.83	6.93	6.08	5.90	6.10	6.83	6.13	3.98	5.49	6.50	7.66	6.47	6.23

TABLE 6. Hourly, monthly and annual means of the recorded velocity of the wind for the year 1889.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.	k. p. h.
1 a. m.	0.13	0.63	0.34	0.37	0.65	0.77	0.80	0.85	0.83	0.34	1.04	0.62	0.61
2	0.18	0.63	0.49	0.45	1.11	0.96	1.14	0.98	1.04	0.54	0.93	0.83	0.77
3	0.21	0.60	0.65	0.77	1.06	0.75	1.24	1.01	1.15	0.70	1.09	0.90	0.84
4	0.34	0.66	0.62	0.77	0.67	0.48	0.70	1.01	1.01	0.49	0.96	0.80	0.71
5	0.41	0.66	0.54	0.69	0.67	0.40	1.08	1.24	1.04	0.59	0.83	0.75	0.74
6	0.52	0.43	0.34	0.69	0.77	0.67	1.11	1.29	0.99	0.75	1.33	0.98	0.82
7	0.95	0.74	1.03	1.44	1.68	1.52	1.14	2.40	2.24	2.07	2.93	2.06	1.69
8	1.11	1.20	1.45	2.30	2.48	2.45	2.22	3.75	2.96	2.74	4.76	4.05	2.63
9	3.13	3.49	4.05	4.57	4.32	3.71	4.22	6.01	5.10	3.69	5.67	5.45	4.46
10	4.37	5.24	5.85	5.59	5.49	4.25	5.57	7.49	6.80	5.46	6.50	6.26	5.74
11	6.24	6.30	6.98	6.88	6.63	4.57	6.76	9.57	7.95	6.96	6.99	7.64	6.97
12	7.83	7.65	8.33	7.47	7.94	5.59	7.78	10.73	9.42	8.48	7.93	7.99	8.10
1 p. m.	9.23	9.07	8.83	8.75	9.34	6.69	8.76	12.06	10.71	9.64	8.91	8.69	9.23
2	9.90	10.02	9.35	9.80	9.56	7.71	10.00	13.52	12.40	9.25	9.26	9.04	9.99
3	8.94	8.94	8.60	10.23	8.91	7.56	9.90	13.49	13.12	9.29	8.07	7.84	9.58
4	7.18	7.41	7.03	8.06	7.28	6.21	9.40	12.87	11.81	8.57	6.73	6.47	8.26
5	4.64	4.75	4.81	5.08	5.48	4.73	7.00	9.88	8.64	5.51	4.62	5.28	5.88
6	2.27	2.43	2.92	3.45	2.82	2.83	3.18	4.99	4.37	3.49	2.96	3.44	3.27
7	1.32	0.91	1.47	2.57	1.91	1.84	1.86	2.40	2.22	2.19	2.67	2.45	1.99
8	0.93	0.54	1.06	1.84	1.52	2.30	1.29	1.42	1.49	1.65	2.48	1.78	1.53
9	0.46	0.46	0.65	1.39	0.98	1.79	1.03	1.21	0.88	0.98	1.89	1.26	1.08
10	0.39	0.54	0.65	0.96	1.32	1.31	0.85	0.98	1.17	0.77	1.87	0.90	0.98
11	0.28	0.60	0.57	0.88	1.22	0.96	0.98	1.03	1.15	1.06	1.47	1.29	0.96
12	0.21	0.72	0.39	0.56	1.08	0.61	0.95	1.08	0.99	0.62	1.36	1.14	0.81
Monthly Means.	2.97	3.11	3.21	3.57	3.54	2.94	3.71	5.05	4.56	3.58	3.89	3.66	3.65

TABLE 7. Hourly and monthly means of the four components of the wind in the year 1889.

Velocity in kilometers per hour.

Hours of mean Batavia Time.	January.				February.				March.			
	N.	E.	S.	W.	N.	E.	S.	W.	N.	E.	S.	W.
1 a. m.	0.04	0.05	—	0.07	0.42	—	0.05	0.22	0.09	—	0.08	0.26
2	0.04	—	0.09	0.12	0.26	—	0.05	0.49	0.11	0.06	0.20	0.20
3	0.07	—	0.07	0.14	0.15	—	0.06	0.51	0.18	0.07	0.16	0.32
4	0.26	0.08	—	0.10	0.24	—	0.02	0.51	0.22	0.09	0.18	0.29
5	0.26	0.04	0.06	0.16	0.31	—	0.05	0.40	0.19	0.07	0.14	0.27
6	0.31	0.11	0.05	0.22	0.18	0.04	0.04	0.30	0.14	0.07	0.13	0.10
7	0.47	0.15	0.19	0.49	0.15	0.04	0.23	0.56	0.31	0.12	0.46	0.39
8	0.34	0 13	0.25	0.62	0.35	0.12	0.09	0.90	0.26	0.20	0.64	0.77
9	1.14	0.31	0.40	2.00	1.72	0.05	0.22	2.40	0.71	1.41	1.21	1.65
10	1.98	0.27	0.82	2.64	2.54	—	0.37	3.80	1.86	2.69	0.80	1.67
11	3.73	0.53	0.11	3.60	4.18	0.20	0.16	3.79	2.95	3.17	0.37	2.24
12	5.90	0.74	0.15	3.35	5.50	0.47	0.32	3.69	3.07	3.32	0.37	1.81
1 p. m.	7.70	0.88	—	2.92	6.60	0.43	0.53	3.83	6.86	3.10	0.28	0.86
2	8.53	0.97	—	2.14	8.13	0.27	0.37	3.09	6.37	3.56	0.36	1.69
3	7.58	0.68	0.25	1.88	7.44	1.09	0.16	2.77	6.54	2.29	0.36	1.33
4	5.48	0.26	0.50	2.16	5.66	0.43	0.35	2.74	4.91	1.69	0.51	1.22
5	2.85	0.18	0.86	1.79	3.01	0.45	0.74	1.73	2.59	0.86	0.79	1.86
6	1.17	0.05	0.70	1.00	1.09	0.12	0.41	1.32	0.85	0.53	1.08	1.32
7	0.52	—	0.48	0.79	0.22	0.01	0.19	0.68	0.37	0.18	0.65	0.72
8	0.43	0.12	0.25	0.41	0.03	—	0.20	0.45	0.40	0.17	0.39	0.41
9	0.16	0.02	0.16	0.25	0.08	—	0.11	0.28	0.20	0.10	0.27	0.26
10	0.19	0.05	0.08	0.18	0.17	0.04	0.16	0.26	0.22	0.03	0.21	0.35
11	0.16	0.05	0.05	0.10	0.18	—	—	0.56	0.26	0.02	0.12	0.35
12	0.09	0.05	0.03	0.09	0.45	0.01	0.13	0.31	0.14	0.02	0.16	0.21
Monthly Means.	2.06	0.24	0.23	1.13	2.04	0.16	0.21	1.48	1.74	0.99	0.41	0.86

TABLE 7. Continued.

Hours of mean Batavia Time.	April.				May.				June.			
	N.	E.	S.	W.	N.	E.	S.	W.	N.	E.	S.	W.
1 a. m.	0.06	0.07	0.21	0.08	0.21	0.28	0.15	0.20	0.18	0.04	0.20	0.56
2	0.13	0.08	0.23	0.10	0.17	0.33	0.40	0.49	0.41	0.11	0.18	0.55
3	0.27	0.25	0.28	0.16	0.16	0.44	0.62	0.15	0.17	0.09	0.06	0.55
4	0.21	0.30	0.34	0.12	0.08	0.32	0.40	0.04	0.08	0.08	0.12	0.34
5	0.22	0.25	0.31	0.06	0.09	0.24	0.41	0.07	0.14	0.04	0.09	0.25
6	0.17	0.24	0.35	0.11	0.16	0.27	0.41	0.13	0.19	0.02	0.17	0.42
7	0.27	0.47	0.80	0.23	0.36	0.74	0.68	0.24	0.18	0.16	0.71	0.87
8	0.24	1.10	1.17	0.27	0.38	0.77	1.33	0.67	0.15	0.55	1.34	0.97
9	0.48	2.56	1.49	0.80	0.37	2.05	2.01	1.01	0.36	1.09	1.53	1.51
10	1.24	3.69	1.18	0.81	0.50	3.79	1.05	1.10	0.61	1.33	1.80	1.70
11	1.25	5.05	0.62	0.94	1.53	3.86	1.71	1.40	0.51	2.02	0.91	2.00
12	2.85	4.83	0.24	1.10	2.36	5.08	0.52	1.36	1.70	2.28	0.46	2.42
1 p. m.	5.10	4.96	0.63	0.48	3.84	5.11	0.86	1.78	3.18	2.86	0.23	2.05
2	7.32	5.14	—	0.19	5.02	4.49	0.51	1.53	4.84	3.13	0.15	1.84
3	7.58	5.29	—	—	5.02	4.19	0.16	1.63	4.61	3.06	0.59	1.44
4	5.65	3.71	0.14	0.77	4.54	2.91	0.06	1.21	3.99	1.84	0.44	1.55
5	2.71	1.52	0.79	1.24	2.71	2.61	0.55	1.13	2.20	1.22	1.02	1.51
6	0.59	0.80	1.81	1.48	0.74	1.29	0.69	0.84	0.73	0.63	1.05	1.25
7	0.24	0.41	1.59	0.81	0.37	0.83	0.56	0.53	0.40	0.32	0.67	0.97
8	0.10	0.47	1.26	0.53	0.24	0.71	0.57	0.45	0.55	0.29	0.91	1.10
9	0.09	0.11	0.92	0.61	0.21	0.40	0.42	0.28	0.37	0.29	0.68	0.87
10	0.10	0.08	0.64	0.36	0.34	0.63	0.43	0.26	0.07	0.13	0.77	0.72
11	0.18	0.12	0.51	0.26	0.36	0.33	0.46	0.26	0.05	0.09	0.37	0.66
12	0.06	0.06	0.30	0.23	0.20	0.40	0.48	0.33	0.16	0.08	0.11	0.44
Monthly Means.	1.55	1.73	0.66	0.49	1.25	1.75	0.64	0.71	1.08	0.91	0.61	1.10

TABLE 7. Continued.

Hours of mean Batavia Time.	July.				August.				September.			
	N.	E.	S.	W.	N.	E.	S.	W.	N.	E.	S.	W.
1 a. m.	0.17	0.31	0.40	0.12	0.26	0.60	0.15	0.02	0.27	0.27	0.24	0.32
2	0.42	0.55	0.38	0.12	0.32	0.55	0.31	0.08	0.28	0.32	0.35	0.42
3	0.48	0.67	0.35	0.06	0.34	0.49	0.35	0.14	0.23	0.33	0.56	0.36
4	0.20	0.32	0.17	0.15	0.39	0.46	0.41	0.09	0.33	0.50	0.29	0.18
5	0.38	0.46	0.38	0.18	0.55	0.53	0.37	0.12	0.42	0.56	0.26	0.15
6	0.32	0.47	0.46	0.16	0.63	0.56	0.33	0.15	0.33	0.57	0.28	0.12
7	0.34	0.53	0.41	0.12	0.82	1.19	0.76	0.28	0.58	1.00	0.89	0.30
8	0.35	0.81	0.91	0.63	0.40	1.66	2.29	0.31	0.29	0.85	1.84	0.78
9	0.63	2.24	1.72	0.72	0.36	2.91	2.91	1.02	0.54	2.10	2.34	1.32
10	0.15	3.50	2.08	0.87	0.63	5.17	2.36	0.77	0.91	4.73	1.76	0.95
11	0.51	5.06	1.69	0.58	1.31	7.16	2.01	0.94	1.68	5.60	1.59	0.74
12	1.50	6.12	1.32	0.50	2.72	8.24	1.15	0.68	4.90	6.00	0.35	0.68
1 p. m.	3.52	6.56	0.80	0.28	5.75	7.83	—	0.57	7.87	4.66	0.36	0.33
2	4.48	7.32	0.51	0.27	7.62	8.60	0.17	0.31	9.47	5.76	0.08	0.32
3	5.50	5.81	0.37	0.26	9.63	6.87	0.29	0.19	9.36	6.48	0.35	0.42
4	5.13	6.29	0.07	0.12	8.10	8.13	—	0.11	7.96	5.86	0.51	0.19
5	3.43	4.34	0.52	0.68	5.35	6.74	0.29	0.16	5.37	4.95	0.21	0.29
6	1.49	1.86	0.31	0.25	2.56	3.56	0.19	0.08	2.15	2.26	0.63	0.34
7	0.40	0.96	0.54	0.52	0.78	1.45	0.44	0.45	0.80	0.81	0.62	0.54
8	0.15	0.40	0.57	0.54	0.37	0.64	0.49	0.28	0.30	0.56	0.59	0.45
9	0.16	0.26	0.53	0.38	0.25	0.50	0.35	0.36	0.29	0.21	0.36	0.26
10	0.06	0.26	0.53	0.23	0.24	0.34	0.46	0.22	0.40	0.22	0.42	0.44
11	0.11	0.41	0.56	0.10	0.29	0.37	0.44	0.23	0.37	0.39	0.41	0.29
12	0.22	0.45	0.40	0.15	0.38	0.52	0.33	0.17	0.35	0.33	0.33	0.30
Monthly Means.	1.25	2.33	0.67	0.33	2.09	3.13	0.70	0.32	2.31	2.31	0.65	0.44

TABLE 7. Continued.

Hours of mean Batavia Time.	October.				November.				December.			
	N.	E.	S.	W.	N.	E.	S.	W.	N.	E.	S.	W.
1 a. m.	0.13	0.11	0.10	0.07	0.10	0.02	0.09	0.96	—	—	0.23	0.50
2	0.29	0.20	0.09	0.14	0.11	0.05	0.12	0.78	0.05	—	0.31	0.60
3	0.20	0.32	0.30	0.11	0.11	0.07	0.14	0.92	0.09	—	0.31	0.73
4	0.11	0.20	0.19	0.08	0.04	0.06	0.12	0.83	0.03	—	0.25	0.65
5	0.19	0.39	0.12	0.02	0.10	0.04	0.05	0.74	0.03	—	0.21	0.64
6	0.30	0.33	0.16	0.14	0.22	0.15	0.21	0.98	0.13	—	0.23	0.84
7	0.52	0.79	0.71	0.53	0.52	0.02	0.59	2.41	0.31	—	0.49	1.69
8	0.37	0.75	1.32	1.03	0.67	0.34	1.08	3.75	0.51	—	0.94	3.31
9	0.52	1.49	1.74	1.05	0.96	0.53	1.30	4.17	0.42	—	1.01	4.84
10	0.30	2.98	2.24	0.86	1.12	0.75	0.97	4.89	1.33	—	0.77	5.29
11	1.00	4.21	3.09	0.70	1.94	0.78	0.68	5.09	2.24	—	0.87	6.47
12	2.89	4.99	1.65	0.71	3.31	0.59	0.53	5.42	2.61	0.06	0.88	6.27
1 p. m.	5.94	4.32	0.22	0.51	4.38	1.09	0.28	5.34	3.27	0.19	0.53	6.45
2	6.14	4.21	0.56	0.33	4.95	0.44	0.24	5.36	3.92	0.25	0.72	5.98
3	6.61	3.48	0.34	0.53	3.76	1.03	0.30	5.00	2.59	0.02	1.29	5.69
4	4.90	3.94	0.55	0.64	2.49	0.92	0.62	4.09	1.87	0.01	0.95	4.81
5	2.61	2.87	0.64	0.41	1.40	0.58	0.44	3.12	1.38	—	1.10	3.90
6	1.15	1.24	0.99	0.86	0.76	0.31	0.23	2.22	0.53	0.03	0.96	2.53
7	0.58	0.52	1.02	0.62	0.88	0.24	0.16	1.96	0.22	0.02	0.66	1.93
8	0.37	0.31	0.73	0.67	0.35	0.06	0.25	2.17	0.21	—	0.40	1.45
9	0.13	0.21	0.55	0.33	0.31	0.02	0.30	1.61	0.09	—	0.27	1.12
10	0.18	0.18	0.30	0.28	0.24	0.02	0.31	1.62	0.05	—	0.26	0.73
11	0.17	0.41	0.47	0.31	0.08	0.06	0.16	1.29	0.05	—	0.56	0.97
12	0.10	0.31	0.24	0.15	0.07	0.06	0.15	1.22	0.13	—	0.35	0.86
Monthly Means.	1.49	1.62	0.76	0.46	1.20	0.34	0.39	2.75	0.92	0.02	0.61	2.84

TABLE 8. Daily means of the North and East components of the wind in 1889.

Velocity in kilometers per hour.

	January.		February.		March.		April.		May.		June.	
	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.
1	0.41	— 3.20	2.64	— 1.95	3.78	— 1.32	0.50	2.16	1.08	— 0.39	— 1.08	— 0.63
2	— 0.26	— 1.46	1.63	— 2.15	3.25	— 2.61	0.40	1.95	— 0.08	— 3.22	0.25	— 4.20
3	2.19	— 0.62	2.73	— 0.42	0.33	— 1.53	1.38	0.74	0.73	— 2.63	— 0.53	— 7.07
4	0.82	— 1.15	1.80	— 1.59	0.90	— 0.43	— 0.01	0.18	— 0.21	— 2.62	— 0.34	— 2.29
5	2.53	— 2.35	2.87	— 1.90	0.88	— 2.84	— 0.15	— 0.87	0.32	— 2.28	0.22	— 2.26
6	— 0.22	— 1.15	3.21	— 0.76	1.79	— 1.84	0.75	0.35	0.33	— 2.06	0.01	— 1.52
7	1.53	— 0.73	2.06	— 1.20	3.45	— 1.65	0.06	2.50	1.91	1.47	0.65	— 1.95
8	1.01	— 0.92	1.80	— 3.70	3.27	— 0.79	1.33	1.89	1.33	2.14	0.88	— 0.45
9	2.79	— 0.58	1.60	— 2.86	1.08	— 0.19	— 0.27	2.51	1.39	2.26	1.76	2.00
10	3.31	— 1.09	1.29	— 1.69	0.45	0.60	0.43	1.54	1.61	1.16	0.93	2.99
11	2.12	— 0.85	2.47	— 2.34	1.25	0.51	0.22	— 0.85	1.65	1.90	— 0.50	0.68
12	2.01	— 0.42	0.78	— 3.38	0.98	0.78	1.97	— 0.95	0.49	0.32	— 0.26	1.11
13	1.40	— 0.93	2.24	— 1.30	0.07	— 0.41	1.67	— 1.34	0.57	2.63	0.46	0.48
14	1.16	— 1.97	0.63	0.26	2.08	— 1.22	2.38	2.10	0.04	4.22	1.19	2.16
15	3.28	— 0.43	1.78	— 0.19	1.13	— 1.40	2.36	1.28	0.75	2.77	0.12	0.12
16	1.02	2.69	1.95	— 0.67	1.62	0.38	1.93	1.43	1.28	— 0.36	1.39	1.02
17	0.95	— 0.46	— 1.33	— 2.57	2.41	— 0.23	0.64	1.09	— 1.31	5.55	0.77	— 0.61
18	1.73	— 0.12	1.49	— 0.72	2.08	1.21	0.82	1.32	— 1.34	4.75	1.38	1.20
19	2.41	0.12	1.03	— 0.94	0.95	— 0.12	1.97	0.26	— 0.26	5.69	1.91	1.12
20	2.89	— 0.13	2.33	0.01	1.13	— 1.29	1.50	0.07	— 0.26	2.93	0.14	— 0.35
21	2.32	— 1.65	1.69	— 1.34	0.14	0.96	1.69	— 0.71	1.11	2.85	— 0.26	— 0.38
22	0.47	— 1.27	1.59	— 1.50	1.60	— 0.75	1.36	0.93	— 0.77	3.79	0.39	— 0.60
23	3.75	— 1.15	3.02	0.02	1.22	0.83	2.21	2.79	— 0.76	2.71	0.89	1.20
24	1.44	— 1.46	2.60	— 1.10	1.37	— 0.03	0.04	4.77	2.34	1.38	1.18	— 0.45
25	2.50	— 1.06	2.56	— 1.28	1.04	1.63	0.28	5.00	— 0.09	— 1.51	1.22	1.64
26	2.11	— 0.93	2.89	— 0.07	0.27	2.86	0.21	3.49	1.77	1.37	— 0.51	— 0.44
27	2.50	0.15	1.74	— 0.65	0.45	3.52	— 0.26	2.57	0.70	— 0.34	— 0.15	— 0.20
28	3.99	— 0.34	0.29	— 1.15	1.66	4.12	— 0.07	— 0.40	0.07	— 1.39	0.67	0.78
29	2.40	— 0.61			0.39	0.11	0.35	0.03	1.66	— 0.32	0.51	0.30
30	1.71	— 1.12			0.95	2.41	0.91	1.46	1.08	— 0.48	0.77	0.64
31	0.33	— 2.61			— 0.80	2.88			1.65	0.03		
Means.	1.83	— 0.90	1.84	— 1.33	1.33	0.13	0.89	1.24	0.61	1.04	0.47	— 0.20

	July.		August.		September.		October.		November.		December.	
	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.
1	— 0.74	6.02	1.71	3.81	0.87	2.59	0.12	0.59	2.41	— 0.18	1.23	— 1.73
2	0.15	3.60	1.44	0.83	2.61	1.51	2.84	0.03	2.76	2.24	1.60	— 0.05
3	— 0.65	3.34	1.22	2.69	1.92	3.98	— 0.68	— 0.58	0.61	— 1.64	0.24	— 2.27
4	0.70	1.76	2.47	— 0.05	3.04	1.60	— 0.19	2.19	— 0.33	— 1.10	0.59	— 3.61
5	0.86	0.24	0.89	— 2.50	2.69	— 0.71	— 0.83	1.07	— 0.97	— 1.77	0.77	— 1.93
6	1.41	— 0.33	0.91	4.22	— 0.70	6.32	— 0.09	4.77	0.78	— 1.17	1.20	— 0.97
7	0.12	1.84	1.74	2.03	2.53	4.44	— 0.28	— 0.64	2.29	0.98	2.24	— 0.57
8	— 0.91	0.51	1.70	5.61	0.91	2.28	1.04	0.79	— 0.11	0.23	0.77	— 3.04
9	— 1.13	1.22	2.83	2.60	1.83	2.10	1.33	0.14	— 0.23	2.18	1.85	— 4.49
10	— 1.40	4.31	0.52	0.89	2.15	2.78	— 0.04	1.73	2.75	2.48	0.35	— 2.68
11	0.62	5.22	1.28	3.86	3.16	0.56	— 0.62	3.35	1.48	— 0.19	1.45	— 1.71
12	0.41	1.47	1.85	1.46	2.69	3.05	0.52	2.70	0.23	— 3.63	1.28	— 1.58
13	1.12	1.41	2.01	4.24	2.34	4.46	0.41	0.22	1.42	— 5.50	— 0.77	— 3.70
14	0.80	0.68	2.60	2.17	1.07	3.75	0.66	4.42	0.49	— 4.99	— 1.39	— 3.86
15	1.62	1.29	2.27	2.06	1.24	1.59	1.53	4.16	0.94	— 2.01	— 0.64	— 5.29
16	— 0.71	1.01	1.75	2.80	1.91	4.19	0.59	1.15	2.90	— 2.37	0.08	— 5.52
17	— 0.24	1.63	2.23	2.23	2.08	2.50	2.35	0.18	0.76	— 3.79	1.20	— 5.51
18	— 1.43	4.96	0.76	1.80	1.69	1.22	1.37	0.05	— 1.12	— 5.81	0.56	— 1.37
19	2.88	4.63	0.88	3.25	0.19	— 3.90	0.16	0.00	0.15	— 3.40	— 0.74	— 0.01
20	0.63	1.63	2.78	— 0.55	— 1.16	0.63	— 0.83	— 0.85	— 0.53	— 3.47	— 1.71	— 4.05
21	— 0.46	2.73	2.30	0.12	0.79	— 1.12	— 0.04	— 0.07	1.11	— 2.49	0.17	— 4.56
22	1.35	— 2.21	1.16	0.91	0.76	— 0.85	— 0.39	— 0.61	0.32	— 3.79	1.10	— 2.04
23	0.61	1.54	1.38	3.01	2.20	— 0.09	2.29	1.23	0.07	— 6.02	3.36	— 2.26
24	2.04	3.37	— 0.98	6.65	2.36	2.07	0.70	3.76	0.58	— 6.54	0.42	— 3.17
25	1.73	1.21	— 1.88	6.19	1.00	1.03	0.99	1.41	1.59	— 7.70	— 2.24	— 1.78
26	1.78	— 0.39	— 0.68	10.90	2.65	2.12	2.19	1.57	1.16	— 4.77	— 2.28	— 1.21
27	0.71	1.76	0.11	5.92	3.03	2.78	— 0.91	2.93	1.34	— 1.74	— 0.72	— 3.56
28	1.38	1.59	3.02	1.67	0.74	1.91	1.11	— 0.41	0.87	— 1.81	0.09	— 5.28
29	1.76	1.50	1.32	2.59	2.97	2.60	2.54	0.33	0.63	— 1.79	0.23	— 3.29
30	1.46	1.18	1.99	3.60	0.24	0.65	2.22	— 0.31	0.06	— 2.52	0.27	— 4.14
31	1.77	3.26	1.34	1.93			2.40	0.47			— 0.89	— 2.17
Means.	0.59	2.00	1.38	2.80	1.66	1.87	0.72	1.15	0.81	— 2.40	0.31	— 2.82

TABLE 9. Mean Electrical Potential of the Atmosphere in 1889.

In Volts.

Hours of mean Batavia Time.	Jannary.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	10.9	10.7	11.5	11.8	13.7	6.3	9.0	8.7	6.2	9.1	7.8	6.0	9.31
2	11.4	9.6	10.1	10.9	14.8	6.1	8.0	7.2	5.1	9.6	7.2	5.6	8.80
3	10.2	10.7	10.4	10.9	14.9	6.0	7.4	7.4	5.6	9.2	7.2	5.6	8.79
4	8.6	10.9	9.5	8.6	14.6	5.7	7.0	7.2	5.2	7.8	5.8	5.2	8.01
5	8.5	10.6	9.5	8.8	13.3	6.7	7.9	6.9	5.3	8.0	5.3	5.7	8.04
6	7.4	10.8	11.2	10.7	11.9	7.2	7.7	7.7	5.9	9.0	7.4	6.2	8.59
7	10.8	14.2	12.6	12.1	13.8	9.1	9.1	9.1	5.4	7.6	7.5	7.0	9.86
8	5.6	8.2	8.0	8.6	10.8	6.2	7.1	6.1	2.9	4.6	4.3	4.4	6.40
9	3.7	6.5	5.5	5.9	7.2	4.4	5.4	3.6	0.7	2.4	3.2	3.1	4.30
10	1.9	4.0	2.3	3.6	3.8	2.7	3.6	2.1	0.2	1.4	1.9	2.2	2.48
11	2.2	3.0	2.1	2.9	2.5	2.2	3.4	1.6	— 0.1	1.5	2.1	2.1	2.13
12	1.7	2.3	1.8	3.2	2.3	1.6	3.0	1.4	— 0.3	1.9	1.5	1.1	1.79
1 p. m.	— 0.2	2.2	0.8	3.1	2.2	1.7	2.9	1.0	0.1	2.2	1.1	0.6	1.48
2	2.9	3.3	1.7	2.0	3.3	1.8	1.8	1.0	— 0.4	1.4	1.9	0.7	1.78
3	2.8	5.7	3.6	2.7	2.9	2.7	2.8	0.9	— 0.8	2.0	1.1	1.0	2.28
4	5.1	5.6	5.3	4.0	4.4	2.1	3.5	1.3	0.0	3.4	2.4	2.2	3.28
5	4.6	6.5	7.5	5.1	7.9	3.8	4.2	3.0	1.2	5.5	3.2	1.9	4.53
6	8.9	9.6	7.7	7.9	7.7	6.5	6.2	3.6	1.8	4.6	5.6	3.2	6.11
7	8.2	11.0	9.6	10.7	11.3	7.1	9.2	5.9	3.9	7.1	5.5	5.5	7.92
8	8.9	12.6	9.9	11.3	10.3	7.5	10.7	6.8	5.7	8.3	6.7	5.7	8.70
9	11.2	16.2	11.7	11.9	10.9	5.5	10.6	7.8	7.0	9.1	7.2	5.9	9.58
10	10.0	15.1	11.0	11.6	12.4	6.2	9.8	7.9	6.9	8.7	7.7	6.0	9.44
11	10.9	13.9	11.2	11.5	13.1	5.5	10.1	7.6	6.9	9.1	8.1	6.5	9.53
12	10.5	12.2	11.3	11.1	12.9	6.6	9.5	7.7	6.6	9.3	7.7	5.9	9.28
Monthly Means.	6.95	8.98	7.74	7.95	9.29	5.05	6.65	5.14	3.38	5.95	4.98	4.14	6.35

TABLE 9A. Mean Electrical Potential of the Atmosphere, on Non-Rainy Hours in 1889.

In Volts.

Hours of mean Batavia Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual Means.
1 a. m.	11.2	10.8	11.5	11.8	13.7	6.3	9.0	8.7	6.2	9.1	8.0	6.1	9.37
2	11.5	10.5	10.5	10.9	14.6	6.2	8.0	7.7	5.1	9.6	7.4	5.7	8.98
3	10.2	10.8	10.4	10.9	15.8	6.2	7.4	7.6	5.6	9.6	7.3	5.6	8.95
4	8.6	11.4	9.5	8.8	15.1	5.9	7.0	7.2	5.2	7.7	6.0	5.2	8.13
5	8.6	10.6	9.5	8.9	13.5	6.5	8.0	6.9	5.3	7.6	5.9	5.9	8.10
6	8.0	12.6	11.7	10.0	12.3	7.0	8.0	7.5	5.9	9.0	7.3	6.3	8.80
7	11.3	14.6	13.0	12.2	13.8	9.1	9.4	9.1	5.4	8.0	7.5	7.0	10.03
8	5.5	8.1	7.8	8.7	10.8	6.2	9.0	6.2	2.9	4.7	4.3	4.4	6.55
9	3.3	5.9	5.3	5.9	7.2	4.4	6.2	3.5	0.7	2.3	3.2	3.1	4.25
10	1.7	4.0	2.7	3.6	3.8	2.7	3.3	2.1	0.2	1.4	2.2	2.2	2.49
11	2.1	3.0	1.9	2.9	2.5	2.2	3.5	1.6	— 0.1	1.5	1.8	2.1	2.08
12	1.7	2.5	1.8	3.2	2.3	1.6	3.0	1.4	0.0	1.9	1.4	1.1	1.83
1 p. m.	0.4	2.2	1.0	3.1	2.2	1.7	2.9	1.0	0.1	2.2	1.1	1.1	1.58
2	2.4	3.3	1.7	2.2	2.2	1.7	2.3	1.0	— 0.4	1.4	2.0	0.6	1.70
3	2.8	5.7	3.3	2.7	3.2	2.4	2.8	0.9	— 0.8	2.7	0.9	0.9	2.29
4	5.0	4.5	5.0	3.4	4.4	1.6	3.3	1.3	0.0	3.4	2.4	1.2	2.96
5	4.6	6.5	7.4	5.3	7.6	2.8	4.5	3.0	1.2	5.5	3.2	2.0	4.47
6	8.7	10.2	7.7	7.5	7.9	6.5	6.5	3.6	1.6	4.8	5.6	2.8	6.12
7	8.7	11.0	9.9	10.7	11.3	7.1	9.0	6.0	3.4	7.4	5.9	5.3	7.98
8	10.3	13.3	10.6	10.9	11.0	7.9	10.3	6.8	5.0	8.3	7.0	5.7	8.93
9	13.4	16.5	11.8	11.9	10.5	5.5	10.6	7.8	6.3	9.1	7.7	5.9	9.75
10	11.0	15.3	11.3	11.6	12.4	6.4	9.8	7.9	6.9	8.7	8.3	6.2	9.65
11	11.4	14.6	11.3	11.6	13.1	5.4	10.1	7.6	7.0	9.1	8.5	6.9	9.72
12	10.7	12.2	11.4	11.1	12.9	6.6	9.5	7.7	6.6	9.5	8.3	6.0	9.38
Monthly Means.	7.21	9.17	7.83	7.91	9.34	5.00	6.81	5.17	3.30	6.02	5.13	4.14	6.42

TABLE 10. Absolute maxima and minima in 1889.

	Barometric pressure in millimetres.		Temperature of the air Centesimal degrees.		Relative humidity of the air. Saturation = 1000.		Tension of the atmospheric vapour in millimetres.		Velocity of the wind, k. p. h.
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Maximum.
January	762.85	756.43	32.4	22.8	974	562	24.35	18.92	16.1
February	762.77	756.46	31.4	22.8	974	575	24.73	18.33	19.3
March	763.94	756.25	31.1	22.9	975	608	25.07	19.60	17.7
April	760.93	755.63	32.4	23.6	983	617	25.27	20.35	16.1
May	760.78	755.62	32.1	23.4	974	574	25.46	19.71	19.3
June	761.50	755.26	31.7	22.6	974	556	24.27	18.48	14.5
July	761.11	754.80	31.4	22.2	973	544	24.60	16.82	21.7
August	762.85	755.17	32.2	20.1	957	307	22.47	10.07	26.6
September	761.74	755.34	32.2	22.3	966	417	23.13	13.94	22.5
October	762.71	755.72	32.6	22.1	973	475	23.81	15.83	16.9
November	760.74	755.15	32.1	22.2	965	514	22.94	17.61	16.9
December	760.20	754.07	32.8	21.9	974	475	23.58	16.08	16.9
Year	763.94	754.07	32.8	20.1	983	307	25.46	10.07	26.6

TABLE 11. Maxima and minima of daily means 1889.

	Barometric pressure in millimetres.		Temperature of the air. Centesimal degrees.		Relative humidity of the air. Saturation = 1000.		Tension of the atmospheric vapour in millimetres.		Velocity of the wind. k. p. h.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
January	761.56	758.72	27.22	24.95	918	801	23.03	20.81	4.39	1.40
February	760.88	758.52	27.62	25.13	915	816	23.01	20.37	4.58	1.23
March	762.15	758.22	27.65	24.60	922	816	23.12	20.98	4.76	1.70
April	759.56	757.55	28.02	26.43	892	818	23.52	21.81	5.84	1.10
May	759.49	757.19	28.07	25.56	915	790	22.97	21.34	6.70	1.77
June	760.13	756.89	27.35	24.76	928	800	22.34	20.50	7.23	0.93
July	759.86	756.37	27.02	23.64	937	761	21.70	18.70	6.86	1.33
August	761.19	757.09	27.25	25.60	840	677	21.33	15.73	11.38	3.38
September	760.54	757.58	27.39	24.63	895	691	21.13	17.56	8.00	2.27
October	760.85	757.75	27.63	25.06	905	758	21.66	19.44	5.53	2.17
November	758.92	757.04	27.51	25.16	888	741	21.44	19.46	8.08	1.33
December	759.09	756.12	27.83	24.47	925	691	21.06	18.58	6.10	1.70
Year	762.15	756.12	28.07	23.64	937	677	23.52	15.73	11.38	0.93

TABLE 12. Maxima and minima of oscillation or range in 1889.

	Barometric pressure in millimetres.		Temperature of the air. Centesimal degrees.		Relative humidity of the air. Saturation = 1000.		Tension of the atmospheric vapour in millimetres.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
January	4.17	1.99	8.6	4.4	394	205	3.69	1.37
February	4.10	2.22	8.5	3.7	391	167	5.12	1.71
March	3.98	2.16	7.5	3.1	349	150	4.43	1.51
April	3.86	2.59	8.4	4.4	366	221	4.59	1.81
May	4.08	1.40	7.5	4.3	365	148	4.59	1.39
June	3.70	1.62	8.3	2.3	391	113	4.56	1.59
July	3.87	1.63	7.9	2.2	410	99	5.19	1.34
August	4.20	2.35	12.2	5.8	628	260	9.28	1.68
September	4.16	2.33	9.6	4.7	512	234	5.84	1.44
October	4.09	2.41	9.1	4.8	471	187	6.23	1.41
November	3.93	2.18	8.7	3.9	416	186	4.25	1.27
December	4.76	2.29	10.5	3.0	470	144	5.87	1.67
Year	4.76	1.40	12.2	2.2	628	99	9.28	1.27

TABLE 13. Mean daily oscillation or range in 1889.

	Barometric pressure in millimetres.	Temperature of the air. Centesimal degrees.	Relative humidity of the air. Saturation = 1000.	Tension of the atmospheric vapour in millimetres.
January	3.37	6.08	286	2.63
February	3.12	5.77	264	2.96
March	3.21	5.95	270	2.82
April	3.24	6.32	281	3.00
May	3.05	6.43	297	2.72
June	2.81	5.93	268	3.03
July	2.87	6.14	286	2.85
August	3.30	7.58	359	3.20
September	3.18	7.28	345	3.33
October	3.18	7.16	335	3.15
November	3.04	6.50	295	2.61
December	3.24	7.36	323	3.24
Year	3.13	6.54	301	2.96

TABLE 14. Deviations of the mean monthly and annual values in 1889 from the average values for the years 1866—1889.

	Barometric pressure in millimetres.	Temperature of the air in centesimal degrees.	Relative humidity. Saturation = 1000.	Tension of the atmospheric vapour in millimetres.	Cloudiness.
January	0.90	1.00	— 17	0.75	— 0.58
February	0.82	0.88	— 19	0.58	— 0.44
March	1.24	0.59	— 1	0.68	— 0.55
April	0.20	0.81	4	1.13	0.00
May	0.12	0.69	— 2	0.79	0.72
June	— 0.13	0.21	22	0.82	1.50
July	— 0.57	0.21	36	1.13	1.55
August	0.20	0.53	4	0.66	— 0.09
September	— 0.49	0.23	— 1	0.24	0.53
October	0.03	— 0.23	33	0.59	0.92
November	— 0.85	0.11	— 15	— 0.23	0.90
December	— 0.82	0.52	— 52	— 0.79	— 0.66
Year	0.05	0.46	— 1	0.53	0.30

N. B. The average values of the cloudiness have been deduced from the ten-yearly series 1880—1889.

RESULTS OF MAGNETICAL OBSERVATIONS

1889.

TABLE 15. Values of the Zero-line in absolute measure.

1889.	Adie's Magnetograph.			Wild's Magnetometers.		
	Easterly Declination.	Horizontal Force in c. g. s.	Vertical Force in c. g. s.	Easterly Declination.	Horizontal Force in c. g. s.	Vertical Force in c. g. s.
January	1° — 1′.65	0.36817	0.19722	R	R	0.20028 R
February	1° — 1′.19	R	R	1° — 46′.00	0.37082	0.20048
March	1° — 0′.30	0.36700	0.19937	1° — 45′.67	0.37146	0.20190 R
April	1° — 0′.31	0.36710	0.19906	1° — 45′.37	0.37144	0.20199
May	1° — 0′.72	0.36716	0.19893	1° — 45′.40	0.37178	0.20250
June	1° — 1′.01	0.36718	0.19898	1° — 45′.89	0.37204	0.20290
July	1° — 1′.65	0.36721	0.20463 R	1° — 45′.82	0.37095 R	0.20265
August	1° — 1′.86	0.39738	0.20453	1° — 44′.89	0.37148	0.20295
September	1° — 1′.45	0.36744	0.20454	1° — 44′.25	0.37194	0.20316
October	1° — 1′.28	0.36743	0.20427 R	1° — 44′.34	0.37104 R	0.20143 R
November	1° — 1′.44	0.36751	0.20431	1° — 44′.46	0.37123	0.20148
December	1° — 1′.63	0.36759	0.20432	1° — 44′.66	0.37159	0.20151

N. B. The letter R. denotes that the instrument has been readjusted.

TABLE 16. Monthly means in absolute measure.

Minutes of arc and c. g. s. unity.

1889.	E. Declination. 1°30′.00 +	Horizontal Force. 0.36800 +	Vertical Force. 0.19700 +	Total Force. 0.41800 +	S. Inclination. 28°0′.00 +
January	15′.58	291.1	414.1	393.9	28′.23
February	15′.28	294.2	399.4	389.6	27′.06
March	15′.96	294.5	416.3	398.0	28′.25
April	15′.61	292.7	435.8	405.7	29′.72
May	15′.61	291.4	431.8	402.6	29′.48
June	15′.22	290.1	420.0	395.9	28′.69
July	15′.05	288.6	445.5	406.7	30′.57
August	14′.72	289.1	472.1	419.9	32′.46
September	13′.89	284.6	479.5	419.4	33′.16
October	14′.00	289.7	483.4	425.8	33′.24
November	13′.68	277.0	492.1	418.8	34′.36
December	13′.20	287.7	479.8	422.3	33′.06
Year	14′.82	289.2	447.5	408.2	30′.69

TABLE 17. Mean diurnal variation of Easterly Declination for each month of the year 1889.

Uncorrected for disturbances; minutes of arc.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 0.19	0.01	— 0.08	0.07	0.10	0.05	0.06	— 0.17	0.07	0.10	— 0.29	— 0.24	— 0.05
2	— 0.23	— 0.05	— 0.03	0.15	0.19	0.24	0.21	— 0.01	0.13	0.14	— 0.28	— 0.28	0.01
3	— 0.30	— 0.03	— 0.13	0.16	0.21	0.34	0.26	0.12	0.21	0.16	— 0.29	— 0.25	0.04
4	— 0.45	— 0.10	— 0.13	0.11	0.33	0.39	0.27	0.11	0.30	0.10	— 0.39	— 0.36	0.01
5	— 0.63	— 0.07	— 0.19	0.08	0.31	0.49	0.36	0.36	0.41	0.23	— 0.47	— 0.41	0.04
6	— 1.11	— 0.34	— 0.26	0.10	0.42	0.42	0.50	0.63	0.70	0.25	— 0.87	— 0.74	— 0.03
7	— 1.86	— 1.30	— 0.72	0.08	0.91	0.83	0.91	1.20	0.49	— 0.74	— 1.18	— 1.24	— 0.22
8	— 1.92	— 2.32	— 1.81	— 0.99	0.24	0.01	0.13	0.19	— 0.88	— 1.87	— 1.70	— 1.38	— 1.03
9	— 1.47	— 2.54	— 1.96	— 1.47	— 0.62	— 0.78	— 0.68	— 0.76	— 2.04	— 2.23	— 1.73	— 1.45	— 1.48
10	— 0.83	— 2.12	— 1.26	— 1.13	— 0.86	— 1.16	— 1.06	— 1.29	— 2.31	— 2.28	— 1.31	— 1.28	— 1.41
11	— 0.13	— 1.12	— 0.26	— 0.44	— 1.05	— 1.05	— 1.07	— 1.45	— 1.85	— 1.45	— 0.41	— 0.69	— 0.92
12	0.67	0.16	0.63	0.18	— 0.93	— 0.77	— 0.74	— 1.18	— 1.06	— 0.04	0.65	0.15	— 0.19
1 p. m.	1.20	1.21	1.19	0.50	— 0.51	0.01	— 0.16	— 0.43	— 0.08	1.22	1.60	1.00	0.56
2	1.49	1.68	1.37	0.69	0.03	0.50	0.41	0.29	0.68	1.55	1.94	1.33	0.99
3	1.58	1.71	1.39	0.77	0.60	0.89	0.96	0.97	1.31	1.51	1.97	1.44	1.26
4	1.28	1.46	1.03	0.69	0.68	0.74	0.76	0.96	1.19	0.94	1.37	1.13	1.02
5	0.96	1.18	0.74	0.49	0.55	0.37	0.40	0.83	1.04	0.71	0.98	0.95	0.76
6	0.71	0.87	0.42	0.20	0.27	— 0.15	0.01	0.35	0.58	0.59	0.53	0.66	0.42
7	0.58	0.60	0.22	0.11	0.08	— 0.15	— 0.16	0.20	0.46	0.53	0.39	0.67	0.29
8	0.45	0.45	0.02	0.00	— 0.17	— 0.21	— 0.28	— 0.04	0.29	0.35	0.18	0.53	0.13
9	0.37	0.38	0.03	— 0.02	— 0.18	— 0.26	— 0.23	— 0.10	0.21	0.26	0.10	0.40	0.08
10	0.15	0.19	— 0.08	— 0.18	— 0.26	— 0.32	— 0.31	— 0.25	0.12	0.06	— 0.19	0.18	— 0.08
11	— 0.09	0.10	— 0.08	— 0.06	— 0.17	— 0.22	— 0.31	— 0.28	0.05	0.04	— 0.22	0.05	— 0.10
12	— 0.22	0.06	— 0.11	— 0.08	— 0.08	— 0.17	— 0.21	— 0.31	0.00	— 0.05	— 0.33	— 0.18	— 0.14
Total amount of variation.	18.87	20.05	14.14	8.75	9.75	10.52	10.45	12.48	16.46	17.40	19.37	16.99	11.26

TABLE 18. Mean diurnal variation of Horizontal Force for each month of the year 1889.

Uncorrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 9.4	— 7.9	— 7.1	— 12.8	— 9.2	— 6.3	— 10.9	— 10.8	— 9.1	— 9.1	— 3.9	— 8.0	— 8.7
2	— 9.7	— 6.4	— 5.6	— 11.9	— 6.9	— 6.6	— 8.3	— 8.3	— 6.0	— 6.3	— 2.5	— 4.5	— 6.9
3	— 6.6	— 5.9	— 3.4	— 9.1	— 6.0	— 5.0	— 7.2	— 6.6	— 4.3	— 5.2	— 1.8	— 4.7	— 5.5
4	— 5.8	— 4.4	— 4.9	— 5.6	— 4.0	— 5.1	— 5.6	— 3.7	— 5.6	— 3.6	— 0.7	— 2.3	— 4.2
5	— 5.8	— 3.0	— 3.2	— 4.8	— 2.3	— 2.9	— 4.2	— 4.0	— 4.4	— 3.9	— 0.9	— 2.4	— 3.5
6	— 3.1	— 3.1	— 0.7	— 1.7	1.8	1.5	— 0.6	0.8	— 0.2	— 2.4	1.4	0.2	— 0.5
7	2.5	— 0.3	2.8	4.4	7.6	7.9	6.0	9.7	5.9	2.6	4.7	4.4	4.9
8	7.2	4.8	11.6	13.6	13.1	14.3	13.8	19.8	16.5	9.5	10.9	8.1	12.0
9	16.0	12.9	20.1	24.0	22.1	19.9	20.8	26.7	23.0	17.7	15.3	15.6	19.5
10	23.9	20.0	25.3	30.9	26.8	25.5	27.9	32.2	26.4	23.8	19.2	21.6	25.3
11	27.7	23.2	27.9	34.3	28.6	25.1	31.2	31.6	30.1	26.1	18.9	23.2	27.4
12	23.3	22.3	25.0	28.2	21.9	24.2	27.9	26.3	29.6	24.3	16.3	19.2	24.1
1 p. m.	15.4	17.1	15.5	17.8	13.0	14.5	20.2	16.7	20.3	15.5	10.1	10.8	15.6
2	7.0	8.6	4.2	6.1	5.4	4.8	9.9	7.4	7.7	5.8	2.8	4.1	6.2
3	— 0.6	— 0.6	— 6.2	— 3.1	— 1.5	— 3.9	— 3.8	— 3.5	— 6.1	— 4.9	— 3.9	— 3.9	— 3.5
4	— 3.9	— 5.7	— 8.8	— 11.0	— 7.9	— 10.7	— 10.6	— 11.6	— 12.4	— 6.3	— 6.3	— 8.0	— 8.6
5	— 7.2	— 8.0	— 10.4	— 11.6	— 12.9	— 12.5	— 12.6	— 15.9	— 16.5	— 8.5	— 8.1	— 8.0	— 11.0
6	— 9.9	— 8.2	— 12.2	— 10.9	— 14.2	— 10.9	— 13.5	— 15.2	— 16.3	— 11.2	— 8.4	— 8.6	— 11.6
7	— 10.3	— 8.4	— 13.1	— 11.5	— 15.7	— 11.7	— 13.6	— 17.2	— 15.0	— 11.2	— 9.3	— 9.3	— 12.2
8	— 10.9	— 9.1	— 13.9	— 13.3	— 13.7	— 13.8	— 14.0	— 17.1	— 14.4	— 11.2	— 8.9	— 8.7	— 12.4
9	— 11.3	— 9.8	— 13.9	— 13.4	— 12.5	— 13.3	— 15.2	— 17.0	— 13.7	— 12.1	— 11.7	— 9.7	— 12.8
10	— 10.3	— 9.5	— 10.4	— 13.0	— 12.6	— 12.8	— 13.0	— 15.9	— 14.2	— 10.2	— 10.0	— 10.4	— 11.8
11	— 10.2	— 10.1	— 12.2	— 12.9	— 10.9	— 11.7	— 12.9	— 12.9	— 11.3	— 10.7	— 13.4	— 10.3	— 11.6
12	— 8.1	— 8.6	— 7.3	— 12.3	— 10.2	— 9.5	— 11.4	— 10.5	— 9.8	— 8.9	— 9.7	— 8.9	— 9.6
Total amount of variation.	246.1	217.9	265.7	318.2	280.8	274.4	315.1	241.4	318.8	251.0	199.1	214.9	269.4

TABLE 19. Mean diurnal variation of Vertical Force for each month of the year 1889.

Uncorrected for disturbances. — Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	5.9	7.2	4.7	4.5	1.3	1.3	6.3	2.3	4.8	5.5	3.7	6.8	4.5
2	6.2	6.3	3.3	3.7	0.1	1.0	3.8	0.2	2.2	3.3	2.7	4.1	3.1
3	3.9	5.2	5.2	2.1	— 0.5	0.1	2.8	— 1.1	0.6	2.5	1.3	3.5	2.1
4	3.0	4.1	3.8	0.4	— 1.1	0.4	2.4	— 2.5	1.9	1.5	1.0	1.9	1.4
5	3.2	3.5	3.2	0.7	— 1.1	0.4	2.1	— 2.6	1.2	1.9	0.9	1.5	1.2
6	4.6	5.0	2.1	— 1.3	— 4.2	— 3.0	— 1.7	— 7.7	— 3.4	2.1	1.7	2.6	— 0.3
7	2.8	8.0	5.1	— 0.8	— 6.8	— 5.0	— 6.0	— 9.8	2.5	8.5	3.1	1.8	0.3
8	— 2.6	6.7	2.9	0.1	— 2.9	— 4.5	— 7.3	— 9.4	4.1	4.8	0.0	— 1.1	— 0.8
9	— 11.7	— 2.0	— 9.2	— 9.6	— 6.2	— 7.1	— 11.4	— 9.3	— 1.3	— 5.2	— 6.0	— 7.7	— 7.2
10	— 21.1	— 13.0	— 21.4	— 19.1	— 10.0	— 11.8	— 19.2	— 13.5	— 11.7	— 14.9	— 14.4	— 16.2	— 15.5
11	— 24.4	— 24.1	— 30.2	— 24.0	— 11.2	— 13.5	— 24.0	— 13.5	— 23.6	— 26.6	— 20.6	— 22.4	— 21.5
12	— 23.4	— 28.0	— 29.5	— 20.6	— 8.7	— 13.6	— 24.8	— 12.5	— 28.6	— 33.7	— 23.5	— 25.3	— 22.7
1 p. m.	— 15.2	— 24.2	— 20.8	— 13.5	— 6.4	— 10.4	— 19.1	— 9.7	— 24.3	— 26.8	— 17.9	— 19.6	— 17.3
2	— 7.9	— 16.1	— 9.4	— 5.4	— 5.3	— 7.8	— 13.8	— 7.3	— 14.3	— 12.1	— 9.4	— 12.4	— 10.1
3	1.2	— 6.8	0.6	1.0	— 2.5	— 2.2	— 2.9	0.0	— 4.9	0.7	— 1.2	— 2.8	— 1.7
4	7.1	1.2	5.6	7.0	3.7	5.8	7.9	6.4	4.6	6.8	3.7	4.1	5.3
5	9.8	5.2	9.0	9.9	9.7	11.8	13.4	12.9	11.5	9.8	7.1	8.6	9.9
6	10.5	7.1	11.4	10.7	11.6	11.8	17.0	13.9	13.0	11.0	8.6	9.9	11.4
7	9.2	8.5	12.0	10.8	11.1	10.6	16.2	14.4	13.0	11.4	9.2	10.2	11.4
8	8.5	9.1	12.8	11.2	9.3	10.0	15.3	13.5	12.8	11.7	9.2	10.1	11.1
9	8.5	9.5	12.2	10.3	7.3	8.8	14.8	13.1	12.1	11.5	11.0	11.2	10.8
10	8.0	9.0	9.6	9.2	6.5	7.2	11.8	10.8	11.7	10.0	10.2	11.8	9.6
11	7.7	9.5	9.6	7.9	4.3	5.4	9.8	7.9	9.1	9.1	11.3	10.7	8.5
12	6.7	7.9	6.3	5.9	2.7	3.2	7.5	4.4	6.8	7.2	7.7	8.7	6.2
Total amount of variation.	213.1	227.2	239.9	189.7	134.5	156.7	261.3	198.7	224.0	238.6	185.4	215.0	193.9

TABLE 20. Mean diurnal variation of Southerly Inclination for each month of the year 1889.

Uncorrected for disturbances, minutes of arc.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	0.79	0.82	0.61	0.82	0.45	0.34	0.88	0.58	0.70	0.75	0.41	0.80	0.66
2	0.82	0.69	0.46	0.73	0.28	0.33	0.60	0.33	0.39	0.48	0.29	0.47	0.49
3	0.53	0.60	0.51	0.50	0.20	0.20	0.48	0.18	0.21	0.38	0.16	0.43	0.37
4	0.44	0.46	0.47	0.24	0.08	0.23	0.39	— 0.04	0.35	0.25	0.10	0.23	0.26
5	0.45	0.36	0.36	0.24	0.01	0.14	0.32	— 0.03	0.26	0.29	0.10	0.20	0.22
6	0.45	0.47	0.18	— 0.03	— 0.37	— 0.27	— 0.10	— 0.58	— 0.24	0.25	0.06	0.18	0.00
7	0.10	0.58	0.26	— 0.23	— 0.78	— 0.67	— 0.66	— 1.08	— 0.05	0.51	0.04	— 0.04	— 0.17
8	— 0.47	0.29	— 0.24	— 0.52	— 0.71	— 0.88	— 1.06	— 1.45	— 0.35	— 0.02	— 0.43	— 0.39	— 0.52
9	— 1.46	— 0.65	— 1.44	— 1.62	— 1.30	— 1.28	— 1.62	— 1.71	— 0.99	— 1.06	— 1.03	— 1.16	— 1.27
10	— 2.44	— 1.71	— 2.51	— 2.57	— 1.76	— 1.84	— 2.46	— 2.22	— 1.86	— 1.99	— 1.78	— 2.00	— 2.09
11	— 2.83	— 2.63	— 3.24	— 3.05	— 1.91	— 1.94	— 2.93	— 2.20	— 2.86	— 2.92	— 2.21	— 2.50	— 2.60
12	— 2.58	— 2.87	— 3.08	— 2.57	— 1.47	— 1.91	— 2.86	— 1.92	— 3.20	— 3.35	— 2.32	— 2.55	— 2.56
1 p. m.	— 1.69	— 2.40	— 2.09	— 1.66	— 0.96	— 1.31	— 2.15	— 1.35	— 2.53	— 2.52	— 1.68	— 1.82	— 1.84
2	— 0.84	— 1.49	— 0.83	— 0.62	— 0.59	— 0.75	— 1.37	— 0.81	— 1.32	— 1.09	— 0.78	— 1.04	— 0.96
3	0.11	— 0.47	0.29	0.19	— 0.12	— 0.01	— 0.06	0.13	— 0.11	0.24	0.06	— 0.05	0.02
4	0.66	0.30	0.75	0.93	0.58	0.83	0.98	0.91	0.81	0.73	0.51	0.61	0.72
5	0.98	0.68	1.05	1.16	1.20	1.33	1.45	1.54	1.47	1.03	0.82	0.93	1.14
6	1.13	0.82	1.29	1.19	1.39	1.27	1.74	1.58	1.57	1.23	0.94	1.04	1.27
7	1.06	0.93	1.37	1.22	1.41	1.21	1.69	1.70	1.52	1.25	1.02	1.09	1.29
8	1.03	1.00	1.46	1.32	1.20	1.25	1.64	1.63	1.48	1.27	1.00	1.06	1.28
9	1.05	1.06	1.42	1.26	1.01	1.15	1.65	1.59	1.40	1.30	1.24	1.18	1.27
10	0.97	1.01	1.09	1.16	0.96	1.01	1.35	1.39	1.39	1.11	1.12	1.25	1.15
11	0.94	1.07	1.16	1.07	0.73	0.84	1.20	1.06	1.09	1.07	1.33	1.17	1.06
12	0.79	0.89	0.74	0.90	0.59	0.60	0.98	0.72	0.87	0.86	0.93	0.97	0.82
Total amount of variation.	24.61	24.25	26.90	25.80	20.06	21.59	30.62	26.73	27.02	25.95	20.36	23.16	24.03

TABLE 21. Mean diurnal variation of Total Force for each month of the year 1889.

Uncorrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 5.4	— 3.5	— 4.0	— 9.1	— 7.4	— 5.0	— 6.5	— 8.4	— 5.7	— 5.4	— 1.7	— 3.8	— 5.5
2	— 5.5	— 2.6	— 3.4	— 8.7	— 6.0	— 5.4	— 5.5	— 7.2	— 4.2	— 4.0	— 0.9	— 2.0	— 4.6
3	— 3.9	— 2.7	— 0.5	— 7.0	— 5.5	— 4.4	— 5.0	— 6.4	— 3.5	— 3.4	— 1.0	— 2.5	— 3.8
4	— 3.6	— 1.9	— 2.5	— 4.7	— 4.0	— 4.3	— 3.8	— 4.5	— 4.0	— 2.5	— 0.2	— 1.1	— 3.0
5	— 3.5	— 0.9	— 1.3	— 3.9	— 2.5	— 2.4	— 2.7	— 4.8	— 3.3	— 2.5	— 0.4	— 1.4	— 2.5
6	— 0.5	— 0.3	0.4	— 2.1	— 0.4	— 0.1	— 1.3	— 3.0	— 1.8	— 1.1	2.0	1.4	— 0.6
7	3.6	3.6	4.9	3.5	3.5	4.5	2.4	3.8	6.4	6.3	5.6	4.7	4.5
8	5.1	7.5	11.6	12.0	10.2	10.4	8.7	12.9	16.5	10.6	9.6	6.6	10.2
9	8.5	10.4	13.2	16.5	16.5	14.1	12.9	19.0	19.6	13.1	10.6	10.0	13.7
10	11.0	11.4	12.0	18.0	18.8	16.8	15.4	21.8	17.6	13.8	10.0	11.3	14.8
11	12.7	8.9	10.1	18.7	19.8	15.6	16.0	21.3	15.2	10.2	6.8	9.7	13.8
12	9.3	6.3	7.9	14.9	15.1	14.7	12.7	17.1	12.4	5.2	3.1	4.8	10.3
1 p. m.	6.3	3.5	3.7	9.2	8.4	7.8	8.7	10.0	6.3	0.8	0.3	0.1	5.5
2	2.4	— 0.1	— 0.8	2.8	2.3	0.5	2.1	3.0	0.0	— 0.7	— 2.1	— 2.3	0.6
3	0.1	— 3.7	— 5.2	— 2.3	— 2.5	— 4.5	— 4.7	— 3.1	— 7.7	— 4.0	— 4.0	— 4.8	— 3.9
4	0.0	— 4.4	— 5.1	— 6.3	— 5.1	— 6.7	— 5.5	— 7.2	— 8.7	— 2.3	— 3.8	— 5.1	— 5.0
5	— 1.6	— 4.5	— 4.9	— 5.5	— 6.7	— 5.4	— 4.6	— 7.9	— 9.0	— 2.8	— 3.7	— 2.9	— 4.9
6	— 3.6	— 3.8	— 5.3	— 4.5	— 6.9	— 4.0	— 3.7	— 6.8	— 8.1	— 4.6	— 3.3	— 2.8	— 4.7
7	— 4.6	— 3.3	— 5.8	— 4.9	— 8.4	— 5.2	— 4.2	— 8.3	— 6.9	— 4.4	— 3.8	— 3.3	— 5.3
8	— 5.5	— 3.6	— 6.1	— 6.3	— 7.5	— 7.4	— 5.0	— 8.6	— 6.5	— 4.3	— 3.5	— 2.8	— 5.6
9	— 5.8	— 4.0	— 6.4	— 6.9	— 7.4	— 7.5	— 6.3	— 8.7	— 6.2	— 5.2	— 5.1	— 3.2	— 6.1
10	— 5.2	— 4.0	— 4.6	— 7.0	— 7.9	— 7.8	— 5.8	— 8.9	— 6.8	— 4.2	— 3.9	— 3.5	— 5.8
11	— 5.3	— 4.3	— 6.2	— 7.6	— 7.5	— 7.7	— 6.6	— 7.6	— 5.5	— 5.1	— 6.4	— 3.9	— 6.1
12	— 3.9	— 3.7	— 3.4	— 8.0	— 7.6	— 6.8	— 6.4	— 7.2	— 5.3	— 4.4	— 4.9	— 3.7	— 5.5
Total amount of variation.	116.9	102.9	129.3	190.4	187.9	169.0	156.5	217.5	187.2	120.9	96.7	97.7	146.3

TABLE 22. Mean diurnal variation of Declination in the year 1889.

Observed by means of Wild's magnetometer.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 0.23	0.04	— 0.04	0.08	0.33	— 0.04	— 0.21	— 0.15	0.16	0.07	— 0.34	— 0.17	— 0.04
2	— 0.27	— 0.04	— 0.04	0.08	0.39	0.14	— 0.12	— 0.04	0.16	0.10	— 0.36	— 0.24	— 0.02
3	— 0.34	— 0.04	— 0.13	0.10	0.17	0.18	— 0.03	0.02	0.22	0.05	— 0.41	— 0.26	— 0.04
4	— 0.54	— 0.10	— 0.14	0.03	0.25	0.25	0.00	0.08	0.29	0.09	— 0.44	— 0.34	— 0.05
5	— 0.74	— 0.16	— 0.22	0.00	0.20	0.28	0.12	0.23	0.38	0.08	— 0.58	— 0.42	— 0.07
6	— 1.16	— 0.45	— 0.17	0.13	0.44	0.32	0.32	0.62	0.77	0.26	— 0.87	— 0.72	— 0.04
7	— 1.84	— 1.30	— 0.47	0.10	0.97	0.65	0.59	1.18	0.55	— 0.72	— 1.30	— 1.27	— 0.24
8	— 2.05	— 2.10	— 1.30	— 0.89	0.36	0.13	0.26	0.37	— 0.78	— 1.67	— 1.60	— 1.31	— 0.88
9	— 1.68	— 2.36	— 1.46	— 1.43	— 1.45	— 0.66	— 0.35	— 0.65	— 1.99	— 2.11	— 1.54	— 1.44	— 1.43
10	— 0.94	— 2.01	— 0.95	— 1.14	— 0.89	— 1.00	— 0.65	— 1.23	— 2.25	— 2.15	— 1.17	— 1.26	— 1.30
11	— 0.07	— 1.14	— 0.16	— 0.41	— 1.00	— 0.92	— 0.84	— 1.34	— 1.84	— 1.41	— 0.38	— 0.72	— 0.85
12	1.11	0.11	0.49	0.22	— 0.87	— 0.54	— 0.54	— 1.08	— 1.04	0.06	0.77	0.18	— 0.09
1 p. m.	1.58	1.15	0.78	0.52	— 0.45	0.06	— 0.09	— 0.51	— 0.11	1.17	1.56	0.95	0.55
2	1.65	1.66	0.89	0.73	0.08	0.60	0.53	0.27	0.67	1.56	1.99	1.34	1.00
3	1.61	1.72	1.00	0.82	0.61	0.96	1.01	0.93	1.23	1.56	1.98	1.40	1.24
4	1.31	1.47	0.87	0.83	0.84	0.93	1.06	1.13	1.30	1.09	1.52	1.28	1.14
5	0.88	1.15	0.58	0.59	0.63	0.49	0.60	0.88	1.06	0.71	1.03	0.99	0.80
6	0.57	0.76	0.27	0.19	0.27	— 0.09	0.12	0.33	0.60	0.54	0.58	0.69	0.40
7	0.51	0.50	0.17	0.07	0.07	— 0.22	— 0.15	0.09	0.36	0.41	0.32	0.61	0.23
8	0.37	0.39	0.08	— 0.09	— 0.16	— 0.24	— 0.28	— 0.07	0.23	0.24	0.15	0.43	0.09
9	0.28	0.32	0.05	— 0.14	— 0.23	— 0.38	— 0.36	— 0.21	0.04	0.11	0.00	0.29	— 0.02
10	0.13	0.20	— 0.02	— 0.22	— 0.23	— 0.37	— 0.40	— 0.29	0.04	0.03	— 0.24	0.11	— 0.11
11	— 0.01	0.10	— 0.03	— 0.15	— 0.20	— 0.33	— 0.35	— 0.31	— 0.05	— 0.02	— 0.33	— 0.02	— 0.14
12	— 0.12	0.10	— 0.04	— 0.06	— 0.10	— 0.20	— 0.23	— 0.26	0.02	— 0.02	— 0.32	— 0.12	— 0.11
Total amount of variation.	19.99	19.37	10.35	9.02	11.19	9.98	9.21	12.27	16.14	16.23	19.78	16.56	10.88

TABLE 23. Mean diurnal variation of Horizontal Force in the year 1889.

Observed by means of Wild's Magnetometer.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	— 9.2	— 7.3	— 5.6	— 12.5	— 8.3	— 4.8	— 10.5	— 9.9	— 7.7	— 9.1	— 4.5	— 7.8	— 8.1
2	— 9.8	— 5.8	— 4.2	— 11.4	— 6.2	— 5.5	— 7.9	— 7.3	— 4.8	— 5.7	— 3.9	— 3.9	— 6.4
3	— 6.2	— 4.6	— 1.5	— 8.2	— 5.0	— 3.3	— 6.0	— 4.8	— 2.6	— 4.0	— 0.4	— 3.7	— 4.2
4	— 4.9	— 3.7	— 2.5	— 4.4	— 2.7	— 3.5	— 4.5	— 2.5	— 3.7	— 3.6	0.6	— 1.3	— 3.1
5	— 3.9	— 1.9	— 1.0	— 3.3	— 0.4	— 0.9	— 2.1	— 1.5	— 2.2	— 2.4	1.3	— 0.8	— 1.6
6	— 0.7	— 2.2	1.8	0.1	3.7	3.1	1.1	3.0	1.9	— 1.5	3.4	2.1	1.3
7	5.0	1.4	6.3	6.3	9.8	9.3	8.5	12.6	8.6	4.5	7.2	6.5	7.2
8	9.8	6.6	15.4	16.1	16.0	16.2	15.7	22.2	18.9	12.2	12.5	9.7	14.3
9	19.7	16.0	24.6	27.0	25.4	22.5	23.2	29.8	25.5	20.7	17.3	17.1	22.4
10	27.6	23.2	29.3	34.3	30.1	28.2	30.2	34.8	29.6	27.1	20.5	22.8	28.1
11	29.6	26.4	28.8	36.6	30.9	28.6	32.9	33.0	31.7	27.9	19.8	24.2	29.2
12	24.0	24.5	25.3	29.3	22.7	24.9	29.7	26.1	30.1	24.9	16.3	18.8	24.7
1 p. m.	15.3	18.3	14.5	17.6	13.2	14.7	20.2	15.9	19.9	15.6	9.9	10.5	15.5
2	5.8	8.0	1.8	4.0	4.3	2.3	8.3	5.1	5.3	3.2	1.2	2.5	4.3
3	— 2.1	— 1.7	— 9.2	— 5.7	— 3.4	— 6.4	— 5.9	— 7.0	— 8.1	— 6.7	— 4.8	— 5.4	— 5.5
4	— 6.7	— 8.6	— 12.1	— 14.6	— 10.8	— 14.4	— 13.9	— 15.4	— 15.6	— 9.6	— 8.8	— 9.9	— 11.7
5	— 10.2	— 10.9	— 13.5	— 14.5	— 16.3	— 15.4	— 15.5	— 19.2	— 23.2	— 11.1	— 9.9	— 9.5	— 14.1
6	— 12.7	— 10.6	— 14.7	— 12.9	— 17.3	— 14.0	— 16.3	— 17.4	— 23.0	— 13.1	— 9.0	— 9.7	— 14.2
7	— 12.6	— 10.9	— 15.9	— 13.6	— 18.3	— 14.4	— 15.1	— 18.8	— 15.7	— 13.1	— 10.2	— 10.3	— 14.1
8	— 12.7	— 11.4	— 16.1	— 14.8	— 15.5	— 16.1	— 15.9	— 18.2	— 14.9	— 12.5	— 10.6	— 9.5	— 14.0
9	— 12.6	— 11.2	— 15.9	— 14.6	— 14.5	— 14.4	— 16.1	— 17.8	— 13.9	— 12.2	— 12.2	— 10.5	— 13.8
10	— 12.1	— 11.6	— 12.7	— 13.6	— 14.3	— 14.5	— 13.8	— 17.0	— 14.5	— 10.7	— 11.3	— 11.2	— 13.1
11	— 11.3	— 12.0	— 14.0	— 14.1	— 12.0	— 12.9	— 13.5	— 14.1	— 11.1	— 10.8	— 13.8	— 10.7	— 12.5
12	— 8.9	— 10.2	— 8.8	— 13.2	— 11.5	— 9.4	— 12.6	— 11.8	— 10.5	— 10.2	— 10.3	— 10.2	— 10.6
Total amount of variation.	273.4	249.0	295.5	342.7	312.6	299.7	339.4	365.2	343.0	272.4	219.7	228.6	294.0

TABLE 24. Mean diurnal variation of Vertical Force in the year 1889.

Observed by means of Wild's Magnetometer.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October	November.	December.	Year.
1 a. m.	6.2	6.0	3.6	5.5	2.1	0.5	3.3	0.1	2.6	4.9	2.2	5.0	3.5
2	6.5	5.5	3.5	6.3	0.8	1.0	2.2	— 0.6	1.4	3.5	2.2	3.1	3.0
3	5.1	5.1	3.2	4.4	0.8	0.7	2.1	— 1.1	1.1	3.8	1.9	3.7	2.6
4	4.7	5.1	4.8	3.5	1.1	2.0	2.5	— 0.9	3.2	4.3	2.4	2.9	3.0
5	5.7	4.7	5.3	4.3	1.3	2.4	3.0	0.0	4.0	5.0	3.0	4.0	3.6
6	7.9	7.1	5.5	2.6	— 1.4	0.7	1.4	— 2.5	1.4	6.7	5.1	6.2	3.4
7	6.4	11.0	9.3	4.5	— 2.5	— 1.2	— 1.5	— 3.6	7.3	14.1	7.5	6.8	4.8
8	1.1	10.1	7.9	4.0	0.2	0.3	0.7	0.4	10.9	12.7	5.6	5.8	5.0
9	— 6.7	2.3	— 4.1	— 4.9	— 2.1	— 2.0	— 1.3	0.4	6.9	3.3	1.0	0.5	— 0.6
10	— 16.4	— 8.5	— 17.3	— 15.8	— 6.4	— 6.7	— 8.6	— 3.6	— 2.6	— 7.4	— 7.9	— 6.5	— 9.0
11	— 20.8	— 19.9	— 27.4	— 21.5	— 8.7	— 9.3	— 12.9	— 4.9	— 11.9	— 18.8	— 14.4	— 13.6	— 15.3
12	— 20.2	— 25.7	— 27.3	— 18.9	— 7.2	— 10.9	— 15.2	— 5.3	— 18.2	— 28.0	— 17.8	— 17.9	— 17.7
1 p. m.	— 13.4	— 22.7	— 19.6	— 13.1	— 5.9	— 9.1	— 12.1	— 4.5	— 16.6	— 23.8	— 15.3	— 14.9	— 14.3
2	— 7.7	— 15.1	— 9.1	— 5.9	— 4.8	— 7.2	— 9.4	— 4.7	— 10.4	— 12.0	— 9.2	— 10.2	— 8.8
3	— 0.2	— 7.5	— 0.4	— 0.9	— 3.8	— 3.6	— 3.0	— 1.1	— 4.9	— 2.3	— 3.2	— 4.1	— 2.9
4	4.7	— 0.2	3.8	4.2	1.0	4.0	4.3	2.8	1.1	2.1	0.7	0.8	2.4
5	5.9	2.8	5.9	5.9	6.0	7.7	6.6	5.8	— 0.1	3.2	2.2	2.7	4.6
6	6.2	4.5	7.7	5.7	7.7	7.5	8.8	6.1	0.7	4.1	3.1	2.3	5.4
7	4.6	5.2	7.9	5.8	6.9	5.7	6.9	5.3	5.1	3.9	3.4	2.7	5.3
8	4.1	5.7	8.5	6.2	5.3	5.6	6.3	4.4	4.7	4.4	3.6	2.8	5.1
9	4.3	6.1	8.5	5.3	3.7	4.4	5.9	3.9	4.1	4.6	5.5	3.8	5.0
10	4.3	6.2	6.6	5.1	3.3	3.6	4.2	2.8	4.6	3.7	5.4	5.1	4.6
11	4.4	6.6	7.5	4.5	1.8	2.3	3.1	1.0	2.9	4.0	7.4	4.9	4.2
12	3.3	5.8	5.3	3.5	0.7	1.4	2.2	— 0.5	2.6	3.8	5.7	4.6	3.2
Total amount of variation.	170.8	199.4	210.0	162.3	85.5	99.8	127.5	66.3	129.3	184.4	135.7	134.9	137.3

TABLE 25. Showing, for every day, the ratio R, a relative measure of the diurnal variation, as deduced from Table C. — Declination — 1889.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	1.0	1.2	1.9	1.0	0.7	0.9	0.9	0.8	0.9	1.2	1.9	0.9
2	1.2	1.2	1.4	1.2	0.5	1.4	1.0	1.0	0.8	1.0	1.4	0.9
3	1.2	1.1	1.5	1.1	0.7	0.7	1.0	0.5	0.5	0.8	1.0	0.6
4	1.4	1.3	1.4	1.2	0.9	0.8	1.0	0.6	0.6	1.3	0.6	0.7
5	1.2	1.1	1.4	1.4	1.5	0.6	1.1	0.9	0.8	1.8	0.9	0.7
6	1.2	1.4	1.4	1.4	1.9	1.1	1.0	1.1	0.6	1.2	0.9	1.5
7	1.3	0.9	1.5	1.7	1.3	1.2	0.6	0.9	0.9	1.4	1.0	0.9
8	1.2	0.9	1.0	1.4	0.8	1.1	1.1	0.6	1.2	1.0	0.9	1.1
9	1.1	1.0	1.1	0.6	1.4	1.0	0.7	1.1	0.9	1.2	1.2	1.5
10	1.3	0.9	0.8	0.9	0.6	0.8	1.1	1.2	1.1	1.3	1.4	1.1
11	1.2	1.1	0.9	1.1	0.9	1.0	0.9	1.5	1.4	0.9	1.1	1.0
12	0.8	0.9	0.4	1.3	1.0	1.4	1.2	0.9	1.3	1.1	0.7	0.8
13	0.6	1.2	0.9	0.8	0.9	1.1	0.8	0.9	1.0	1.0	0.7	0.9
14	0.7	0.9	0.6	0.9	0.7	1.3	0.9	0.8	0.8	1.0	0.7	1.6
15	0.7	1.0	0.6	0.7	0.7	0.9	1.0	1.0	0.8	1.0	0.8	0.9
16	1.1	1.1	0.9	0.4	0.5	0.8	1.2	0.7	0.9	0.8	1.0	0.7
17	0.6	1.1	0.8	1.2	1.2	0.7	1.2	0.8	0.4	0.7	1.3	1.1
18	0.9	1.0	0.9	0.9	1.1	1.2	1.1	1.2	0.8	0.8	1.2	0.9
19	0.9	0.9	1.4	1.1	1.3	0.8	0.8	1.4	0.8	0.9	1.0	1.2
20	1.2	1.2	1.0	1.2	0.8	1.0	1.0	1.6	0.8	0.8	0.6	0.6
21	0.8	1.2	1.3	1.1	1.0	1.3	0.6	0.6	1.1	1.0	1.0	0.6
22	0.9	0.8	0.9	1.1	0.7	0.9	0.6	0.8	1.6	0.7	1.3	0.8
23	1.0	0.4	0.9	1.4	1.2	1.2	1.0	1.0	1.4	1.0	0.8	1.1
24	0.9	0.4	0.8	1.1	1.0	1.0	0.7	1.3	0.7	0.8	0.8	1.2
25	1.0	0.9	0.6	0.9	1.0	1.0	1.3	1.0	1.0	0.7	1.2	1.2
26	1.0	0.6	0.5	0.5	1.1	1.0	1.2	1.3	0.9	0.9	1.0	1.4
27	0.7	1.0	0.7	0.8	1.0	0.7	1.2	1.1	1.3	0.9	0.7	1.5
28	0.8	1.1	1.1	0.8	0.9	1.2	0.9	1.2	1.4	1.0	1.0	1.2
29	0.9		0.7	0.5	1.3	0.9	1.0	0.8	1.6	0.9	1.3	0.7
30	0.7		0.6	0.7	1.0	1.0	1.6	1.2	1.6	0.9	0.9	0.8
31	1.3		0.7		1.2		1.3	1.0		0.9		1.1
Mean ratio.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean amount of differences.	212	218	160	119	114	123	122	144	187	194	210	185

TABLE 26. Showing, for every day, the ratio R, a relative measure of the diurnal variation, as deduced from Table C. — Horizontal Force — 1889.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	0.8	1.0	1.5	0.9	0.6	1.1	1.4	0.8	0.9	1.3	2.5	1.0
2	1.2	0.8	0.9	0.9	0.7	0.8	0.9	0.8	1.2	1.2	0.7	0.7
3	0.8	1.1	1.0	1.1	0.9	1.0	0.9	0.8	0.6	1.5	0.9	0.9
4	1.0	1.6	1.0	0.9	1.2	0.9	0.8	0.9	0.9	0.9	0.8	0.8
5	1.1	1.4	1.2	0.9	1.4	1.1	1.0	0.9	0.8	1.6	1.3	0.6
6	0.9	1.3	1.4	0.9	0.9	0.9	1.4	0.7	0.8	1.1	1.1	1.0
7	1.0	0.5	1.0	1.5	1.2	0.6	1.1	0.6	1.0	0.9	1.1	0.6
8	0.9	1.5	0.6	1.4	1.0	0.7	0.8	1.0	1.3	1.1	0.9	0.9
9	0.8	0.5	0.7	0.9	0.9	1.9	0.8	0.8	2.2	1.2	0.9	0.9
10	1.5	1.1	0.9	1.2	0.9	1.0	0.7	0.5	1.4	1.0	1.5	0.9
11	1.0	0.9	0.9	1.0	1.1	0.9	0.6	1.3	1.1	1.3	0.7	0.9
12	1.3	0.7	0.7	0.8	0.6	0.8	1.2	1.1	0.9	1.5	0.5	0.9
13	0.9	1.0	1.0	0.6	0.9	0.9	0.7	1.1	0.9	1.4	0.8	1.4
14	1.0	1.3	0.7	0.8	0.9	2.9	1.1	1.0	0.9	0.8	1.1	1.4
15	0.7	1.1	1.0	0.8	1.0	1.0	0.8	0.9	1.0	0.9	0.5	0.8
16	0.9	0.7	1.1	0.8	0.9	0.8	1.1	0.9	0.9	0.7	0.8	0.7
17	0.7	1.3	0.9	0.8	1.2	1.1	2.9	1.1	0.6	0.8	1.5	0.9
18	1.4	1.0	0.8	0.8	1.2	1.0	1.0	0.8	0.7	0.7	1.1	0.6
19	1.1	0.7	0.7	1.3	1.3	0.9	0.9	0.9	0.8	1.0	0.7	0.6
20	1.9	0.9	1.0	1.4	0.8	0.9	1.0	1.9	0.8	1.1	0.9	0.8
21	0.8	0.7	1.1	1.0	1.2	1.2	0.7	1.0	0.9	0.8	0.9	0.7
22	1.1	1.1	1.7	0.8	1.6	0.7	0.8	1.0	1.4	0.8	1.2	1.0
23	0.9	1.1	1.3	1.0	0.7	1.1	0.7	0.9	1.2	0.9	0.6	1.1
24	0.8	1.0	1.2	0.9	0.9	0.8	1.0	1.0	1.1	0.5	1.0	0.9
25	0.8	0.7	0.7	1.4	0.8	0.7	0.9	1.3	0.7	1.0	0.7	1.0
26	0.8	1.1	1.1	1.1	2.1	0.7	0.8	1.7	0.7	0.7	1.2	1.2
27	1.0	0.9	1.0	0.9	0.7	0.7	0.7	1.1	1.1	0.9	1.2	2.4
28	1.3	1.2	1.3	1.0	1.1	1.1	1.0	1.2	0.9	0.6	0.8	1.3
29	0.9		0.9	1.1	0.6	0.8	1.1	1.1	1.0	1.0	0.9	1.5
30	0.9		1.0	0.8	0.9	1.1	1.2	1.2	1.2	0.8	1.2	1.2
31	1.1		0.8		0.8		1.0	1.0		1.2		1.4
Mean ratio.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean amount of differences.	264	234	288	336	299	288	320	354	339	275	251	239

TABLE 27. Showing, for every day, the ratio R, a relative measure of the diurnal variation, as deduced from Table C. — Vertical Force. — 1889.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	1.2	0.7	1.2	0.8	1.0	0.7	1.0	0.9	1.0	1.2	1.8	1.0
2	1.0	1.1	1.0	1.3	0.8	0.8	0.7	0.8	0.7	0.8	0.7	0.6
3	1.1	1.4	1.3	1.2	1.0	0.7	1.1	1.3	0.4	0.9	0.7	0.7
4	1.3	1.8	1.2	1.1	1.2	0.9	1.5	0.9	0.6	1.5	0.8	0.9
5	1.4	1.9	1.0	1.3	1.0	0.7	1.3	1.1	0.6	1.9	1.1	0.6
6	1.2	2.0	1.2	1.2	0.6	1.1	1.6	1.0	0.6	1.0	0.8	1.1
7	1.5	0.6	0.8	1.7	1.2	0.5	1.0	0.9	0.9	1.2	1.6	0.6
8	0.6	1.0	0.7	1.2	1.3	0.7	0.7	1.0	0.9	0.9	0.8	0.8
9	1.0	0.8	1.1	0.9	1.4	1.6	1.1	0.7	1.4	1.0	1.4	0.5
10	1.1	1.0	0.7	1.0	1.2	2.0	0.7	0.7	1.3	1.3	1.2	1.5
11	1.1	1.2	1.4	0.7	0.8	1.2	0.8	1.0	0.9	0.9	0.9	0.7
12	0.8	1.0	1.1	0.4	0.7	1.4	0.7	0.7	1.1	1.2	0.5	1.0
13	0.5	0.9	1.1	0.8	1.0	0.9	1.4	0.9	0.9	0.9	1.0	1.1
14	0.5	0.9	0.7	0.9	0.9	1.9	1.0	0.8	0.7	1.4	0.9	0.9
15	0.5	0.9	1.0	1.1	0.9	1.1	0.6	0.9	1.5	0.9	0.7	0.6
16	1.5	0.9	1.3	0.6	1.1	0.7	1.3	0.8	0.8	0.8	0.8	0.4
17	0.5	0.8	0.6	1.0	1.3	1.0	2.6	1.2	1.0	1.1	1.4	1.2
18	0.9	0.6	1.3	1.2	1.1	1.0	1.2	1.1	0.9	0.8	1.0	0.3
19	1.3	0.8	0.9	1.6	1.1	0.9	0.8	1.1	0.8	0.7	1.0	0.8
20	1.6	0.6	0.8	0.9	0.7	0.8	0.5	1.9	0.6	1.0	0.8	0.8
21	0.6	1.1	0.7	1.4	1.3	1.6	0.8	1.1	1.8	0.9	1.0	0.9
22	1.0	1.2	1.1	1.0	1.5	0.7	1.0	1.1	1.5	0.7	1.3	1.5
23	0.6	0.6	1.1	1.4	0.5	0.9	1.0	0.8	1.5	1.1	1.0	0.9
24	0.9	0.9	0.9	0.7	0.6	1.0	0.7	0.9	1.2	0.5	1.1	1.5
25	1.2	1.2	0.8	0.9	0.8	0.6	0.8	0.8	0.8	0.9	0.8	2.0
26	1.7	0.7	1.1	0.6	1.8	0.7	0.7	1.4	1.4	0.8	1.1	2.0
27	0.7	0.7	1.1	0.6	0.9	1.0	0.8	1.1	1.2	1.0	0.7	1.2
28	0.9	0.8	0.8	0.9	1.0	1.1	0.8	0.8	0.8	0.8	1.0	1.0
29	1.1		0.7	0.6	1.0	1.0	0.9	1.0	1.6	1.1	1.1	0.9
30	0.5		1.0	0.9	0.6	0.7	0.7	0.9	0.9	0.9	0.9	1.4
31	1.4		1.2		1.0		0.9	1.1		1.1		1.6
Mean ratio.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean amount of differences.	247	258	263	221	157	191	287	226	260	261	231	248

TABLE 28. Mean hourly and monthly amount of deviations, positive and negative taken conjointly. — Declination 1889 — Unity = 0'.1.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	2.9	2.3	1.8	1.8	1.8	2.9	1.8	2.6	2.1	2.2	3.8	3.1	2.42
2	2.8	1.8	1.8	1.6	2.1	1.7	2.0	2.5	2.1	3.2	3.3	2.7	2.31
3	3.4	1.9	1.7	1.6	2.0	1.4	1.2	2.4	2.6	2.7	3.4	3.1	2.28
4	3.2	2.1	1.9	2.0	2.0	1.8	1.6	2.7	2.0	3.1	3.5	3.1	2.43
5	3.2	2.8	1.8	1.9	1.8	1.8	1.7	2.5	1.6	2.9	3.8	3.1	2.41
6	5.1	3.0	2.8	3.2	1.8	1.4	2.2	2.2	3.2	3.2	4.8	3.9	3.07
7	6.0	4.2	4.0	4.4	3.2	3.4	4.2	4.1	5.5	3.3	5.0	4.6	4.31
8	5.8	3.5	3.0	4.0	3.7	4.2	3.9	3.4	4.9	3.8	4.9	4.5	4.14
9	6.5	3.5	3.7	3.1	4.0	3.8	4.2	3.1	4.0	3.5	4.6	5.5	4.12
10	8.2	4.5	5.0	4.2	3.3	3.1	2.9	3.4	3.4	3.2	5.9	5.6	4.39
11	8.5	5.9	5.6	4.6	2.9	2.5	4.5	2.9	3.4	3.9	6.4	5.8	4.73
12	7.9	6.6	6.0	5.8	3.5	3.2	4.0	4.2	4.6	3.1	5.9	5.8	5.04
1 p. m.	6.7	6.6	3.9	5.5	5.0	3.6	4.7	5.2	5.9	4.8	4.3	5.2	5.11
2	5.5	4.6	3.5	5.1	3.7	3.6	4.0	4.5	6.0	3.8	2.9	4.1	4.29
3	4.6	3.5	3.5	3.9	3.3	3.3	5.0	3.9	3.9	2.9	3.1	3.5	3.71
4	5.4	3.4	3.8	3.1	3.6	3.5	3.6	2.6	3.3	2.4	2.9	2.8	3.37
5	4.6	4.4	3.3	2.6	2.1	3.0	3.1	2.0	3.1	1.9	3.0	2.9	2.98
6	3.0	3.4	2.5	2.1	2.1	2.4	2.1	2.2	3.2	1.7	3.1	2.7	2.53
7	2.3	2.5	2.2	1.9	1.7	2.3	2.2	2.7	1.6	1.6	2.5	2.1	2.13
8	2.0	2.8	1.8	2.9	2.3	1.4	2.3	2.3	1.6	2.1	2.7	2.3	2.20
9	2.1	2.6	1.5	2.4	1.6	1.6	2.2	2.3	1.5	2.5	2.7	2.5	2.12
10	2.0	2.5	1.3	3.1	1.8	1.6	1.8	1.7	1.6	2.4	2.5	2.3	2.03
11	2.1	2.5	1.5	2.2	1.9	1.8	2.1	2.4	2.4	2.3	2.3	2.4	2.14
12	2.4	1.6	1.7	2.2	1.9	2.5	2.3	2.3	2.5	2.7	2.6	2.8	2.30
Monthly Means.	4.42	3.44	2.89	3.13	2.63	2.58	2.89	2.92	3.17	2.88	3.74	3.61	3.19

TABLE 29. Mean hourly and monthly amount of deviations, positive and negative taken conjointly. — Horizontal Force 1889. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	2.7	3.2	3.8	3.9	3.0	3.9	3.7	3.5	4.8	5.6	7.1	3.7	4.08
2	3.0	3.1	4.5	2.8	2.8	3.4	3.2	3.5	5.9	4.8	5.7	3.6	3.85
3	4.0	2.9	4.6	4.0	2.7	4.3	3.2	2.9	5.8	4.4	5.5	3.8	4.01
4	2.9	3.6	4.4	5.3	3.9	3.8	2.5	4.1	3.4	4.3	4.9	4.7	3.99
5	2.2	3.6	4.7	4.2	3.8	4.2	2.3	3.7	4.1	3.7	4.5	3.5	3.70
6	2.7	2.6	5.3	4.7	4.0	4.9	2.7	4.0	4.9	4.1	5.8	3.3	4.08
7	4.0	3.5	4.6	5.2	4.0	4.3	3.3	3.5	3.9	4.1	6.0	4.3	4.23
8	4.6	3.5	4.7	5.3	4.4	3.0	4.5	4.9	5.1	4.6	5.9	5.1	4.65
9	5.6	3.7	4.2	4.4	4.7	3.0	4.5	4.4	2.8	4.0	5.1	4.9	4.29
10	5.4	3.3	4.1	4.3	5.2	3.1	4.2	3.7	4.1	4.5	6.4	3.8	4.35
11	6.1	4.3	4.4	4.7	3.6	4.9	4.6	3.7	4.5	5.4	5.3	2.9	4.55
12	4.5	4.2	6.5	6.5	4.3	4.7	5.1	3.1	5.5	4.6	6.9	4.4	5.03
1 p. m.	5.0	4.2	6.5	6.0	5.0	4.0	7.1	6.2	6.7	4.9	6.6	7.0	5.77
2	6.8	4.3	6.1	6.0	6.5	5.4	7.4	5.6	7.8	7.0	6.9	6.8	6.39
3	7.0	4.0	5.9	6.3	5.7	4.4	4.2	5.3	6.9	7.8	7.0	5.8	5.87
4	5.1	4.2	5.4	4.4	6.2	3.8	4.3	5.0	6.9	6.0	5.3	4.5	5.10
5	4.9	5.5	4.2	4.4	4.4	4.3	3.4	4.3	7.3	5.0	3.7	4.2	4.62
6	4.5	4.2	4.3	4.0	5.0	4.2	3.9	4.5	6.4	5.3	3.4	3.9	4.47
7	4.1	4.5	5.1	2.0	5.7	3.6	3.7	5.4	4.1	4.3	5.9	4.2	4.39
8	4.0	3.3	5.8	4.0	4.0	4.0	3.5	5.5	4.0	4.1	6.4	4.4	4.44
9	3.5	5.3	3.5	3.6	3.0	3.8	3.6	6.9	4.6	5.2	5.6	4.7	4.43
10	4.5	3.8	4.1	4.2	3.1	4.3	3.3	5.3	4.4	4.8	4.9	4.1	4.23
11	3.5	3.5	4.2	2.8	3.7	3.4	3.1	4.9	5.9	4.3	5.9	5.4	4.21
12	3.9	3.4	4.3	4.0	3.5	3.8	4.1	3.5	3.7	5.0	5.4	3.6	4.02
Monthly Means.	4.35	3.82	4.79	4.47	4.27	4.02	3.97	4.47	5.15	4.90	5.68	4.44	4.53

TABLE 30. Mean hourly and monthly amount of deviations, positive and negative taken conjointly. — Vertical Force 1889. — Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1 a. m.	3.0	3.1	3.2	3.2	1.9	3.4	3.2	3.5	3.6	3.8	4.5	3.6	3.33
2	2.6	2.7	3.5	2.5	2.0	3.0	3.8	3.6	4.4	3.5	4.1	3.1	3.24
3	3.5	3.1	5.2	2.8	2.2	3.8	3.9	4.8	5.2	3.8	4.8	3.3	3.87
4	2.9	3.9	3.6	4.0	2.7	3.9	4.4	4.8	3.8	4.8	3.9	4.2	3.92
5	3.1	4.3	4.2	3.5	2.4	4.4	3.6	4.7	4.0	3.9	4.6	3.7	3.86
6	4.6	3.7	4.7	3.8	3.0	5.2	4.2	5.0	5.0	3.9	5.1	5.5	4.49
7	4.9	4.4	4.0	5.0	3.0	6.3	5.5	6.1	6.6	3.6	5.8	5.3	5.03
8	6.9	6.6	6.6	7.0	4.8	5.6	5.9	6.1	7.1	5.4	7.0	7.4	6.36
9	8.8	6.8	6.2	5.8	4.7	5.0	6.5	5.5	6.8	5.1	5.8	7.0	6.14
10	9.5	6.4	5.0	4.2	4.4	4.9	7.4	5.5	7.7	6.2	5.6	5.8	6.04
11	7.1	4.2	4.5	4.3	3.5	5.7	7.2	6.4	5.7	5.2	5.5	6.2	5.47
12	6.6	5.0	4.5	4.4	4.7	6.1	6.9	6.6	6.4	4.6	4.5	4.5	5.41
1 p. m.	9.4	4.3	4.6	5.9	4.7	5.1	9.6	9.4	6.7	4.6	4.8	4.8	6.18
2	10.9	5.7	5.0	6.5	5.7	5.8	8.9	7.8	5.6	5.7	5.1	6.9	6.65
3	11.4	6.9	6.1	5.8	5.4	5.1	8.4	5.1	5.0	5.9	5.8	7.5	6.54
4	7.5	6.4	5.4	4.6	4.1	4.1	7.0	4.3	5.6	4.4	6.0	6.2	5.46
5	4.7	4.4	3.4	2.5	3.1	3.2	3.5	4.0	5.4	3.6	4.6	5.0	3.96
6	3.8	3.1	3.5	2.6	2.8	2.8	3.2	3.1	5.0	3.3	3.4	3.8	3.38
7	3.3	3.4	3.2	1.4	3.3	2.6	3.3	2.9	3.9	2.9	3.9	2.9	3.08
8	3.5	3.0	4.4	2.7	2.0	2.9	2.4	2.8	3.1	2.9	3.9	2.8	3.03
9	3.2	3.8	3.5	2.2	2.1	2.6	3.3	3.7	4.0	3.8	3.9	3.0	3.26
10	3.2	2.6	3.2	2.7	2.3	2.3	3.5	3.3	3.5	2.9	3.1	3.0	2.98
11	2.8	3.3	4.1	2.6	2.4	2.5	3.6	2.9	3.0	2.8	4.6	4.4	3.25
12	2.7	2.5	4.7	3.2	1.8	2.7	3.5	3.6	2.7	3.7	4.3	3.8	3.29
Monthly Means.	5.42	4.30	4.43	3.89	3.29	4.13	5.12	4.82	5.00	4.18	4.77	4.73	4.51

TABLE 31. Aggregate values and numbers of disturbances, positive and negative taken separately.

1889.	Declination in minutes of arc.				Horizontal Force. Unity = 0.00001 c. g. s.				Vertical Force. Unity = 0.00001 c. g. s.			
	Aggregate values.		Numbers.		Aggregate values.		Numbers.		Aggregate values.		Numbers.	
	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.	Positive.	Negative.
January	25.2	32.2	15	20	338	463	24	32	912	796	59	52
February	14.4	15.5	10	9	224	297	15	19	510	370	33	26
March	8.4	4.1	5	3	519	606	37	36	378	312	20	22
April	4.6	5.5	3	4	525	492	33	26	333	234	24	19
May	6.2	2.7	4	2	359	468	19	27	329	210	21	14
June	2.7	1.5	2	1	331	442	20	19	466	372	29	29
July	8.0	—	5	—	353	419	20	23	767	705	49	49
August	2.7	2.7	2	2	330	551	23	33	546	453	40	31
September	20.6	13.5	13	9	707	718	41	34	642	694	39	46
October	4.5	3.6	3	2	473	509	33	30	366	259	26	21
November	18.0	17.2	12	11	840	862	45	54	525	445	36	31
December	7.2	16.5	5	11	382	478	28	29	489	468	33	34
Total Amount.	122.5	115.0	79	74	5381	6305	338	362	6263	5318	409	374

TABLE 32. Aggregate values, numbers of disturbances, and mean daily value and number, positive and negative taken conjointly.

1889.	Declination in minutes of arc.				Horizontal Force. Unity = 0.00001 c. g. s.				Vertical Force. Unity = 0.00001 c. g. s.			
	Aggregate values.	Numbers.	Mean daily value.	Mean daily number.	Aggregate values.	Numbers.	Mean daily value.	Mean daily number.	Aggregate values.	Numbers.	Mean daily value.	Mean daily number.
January	57.4	35	1.85	1.1	801	56	25.8	1.8	1708	111	55.1	3.6
February	29.9	19	1.07	0.7	521	34	18.6	1.2	880	59	31.4	2.1
March	12.5	8	0.40	0.3	1125	73	36.3	2.4	690	42	22.3	1.4
April	10.1	7	0.34	0.2	1017	59	33.9	2.0	567	43	18.9	1.4
May	8.9	6	0.29	0.2	827	46	26.7	1.5	539	35	17.4	1.1
June	4.2	3	0.14	0.1	773	39	25.8	1.3	838	58	27.9	1.9
July	8.0	5	0.26	0.2	772	43	24.9	1.4	1472	98	47.5	3.2
August	5.4	4	0.17	0.1	881	56	28.4	1.8	999	71	32.2	2.3
September	34.1	22	1.14	0.7	1425	75	47 5	2.5	1336	85	44.5	2.8
October	8.1	5	0.26	0.2	982	63	31.7	2.0	625	47	20.2	1.5
November	35.2	23	1.17	0.8	1702	99	56.7	3.3	970	67	32.3	2.2
December	23.7	16	0.76	0.5	860	57	27.7	1.8	957	67	30.9	2.2
Total Amount.	237.5	153	7.85	5.1	11686	700	384.0	23.0	11581	783	380.6	25.7
Means.			0.654	0.43			32.00	1.92			31.72	2.14

TABLE 33. Mean temperature of magnetograph- and magnetometer-rooms, observed at Noon and at 7^h. 30^m. a. m. respectively — 1889.

	Magnetograph.	Magnetometer.		Magnetograph.	Magnetometer.
January	30.05	27.97	July	29.75	27.62
February	29.99	27.90	August	30.31	28.35
March	30.20	28.23	September	30.46	28.45
April	31.02	28.96	October	29.81	27.97
May	31.04	28.90	November	29.80	27.93
June	30.22	28.13	December	29.59	27.62
			Year	30.19	28.17

TABLE 34. Solar Diurnal Variation — Easterly Declination.

Components and Coefficients of the first two periodical Terms of the Harmonic Formula.
Initial epoch: Midnight.

1889.	a_1	b_1	a_2	b_2	A_1	C_1	A_2	C_2
January	— 0.19	— 1.14	0.25	0.62	1.15	189°.70	0.67	21°.63
February	0.17	— 1.16	— 0.03	0.98	1.17	171.72	0.98	358.13
March	— 0.11	— 0.77	0.12	0.76	0.78	188.13	0.77	8.92
April	0.06	— 0.36	— 0.08	0.55	0.36	170.17	0.55	351.87
May	0.19	— 0.01	— 0.48	0.33	0.19	92.65	0.58	304.55
June	0.12	0.00	— 0.37	0.51	0.12	89.52	0.63	324.00
July	0.09	0.00	— 0.41	0.46	0.09	90.67	0.61	318.63
August	0.15	— 0.14	— 0.66	0.40	0.21	133.07	0.78	301.00
September	0.45	— 0.55	— 0.59	0.74	0.71	140.25	0.95	321.29
October	0.24	— 0.83	— 0.14	0.93	0.86	163.99	0.94	351.52
November	— 0.32	— 1.05	0.15	0.82	1.09	196.80	0.83	10.65
December	— 0.04	— 1.01	0.02	0.56	1.00	182.29	0.56	1.63
Year	0.07	— 0.58	— 0.19	0.64	0.59	173.36	0.66	343.84

TABLE 35. Solar Diurnal Variation — Horizontal Force.

Components and Coefficients of the first two periodical Terms of the Harmonic Formula.
Initial epoch: Midnight. Unity = 0.00001 c. g. s.

1889.	a_1	b_1	a_2	b_2	A_1	C_1	A_2	C_2
January	— 14.38	5.15	6.56	— 3.30	15.27	289°.70	7.34	116°.69
February	— 12.72	4.39	6.24	— 2.08	13.46	289.02	6.58	108.38
March	— 13.95	8.57	7.24	— 3.76	16.37	301.55	8.16	117.41
April	— 17.75	8.21	7.16	— 5.90	19.56	294.82	9.28	129.50
May	— 14.91	9.55	6.29	— 4.25	17.71	302.67	7.59	124.03
June	— 14.21	9.17	6.05	— 4.22	16.91	302.86	7.37	124.89
July	— 17.11	8.84	7.67	— 4.26	19.26	297.33	8.78	119.02
August	— 17.76	11.80	7.44	— 5.24	21.32	303.60	9.10	125.17
September	— 16.15	10.37	8.60	— 4.66	19.19	302.70	9.78	118.45
October	— 13.76	6.82	6.54	3.45	15.35	296.35	7.39	117.84
November	— 10.59	7.46	3.56	— 2.22	12.95	305.17	4.20	121.94
December	— 11.66	6.65	4.70	— 3.40	13.42	299.69	5.80	125.86
Year	— 14.59	8.09	6.51	— 3.90	16.68	299°.00	7.59	120.92

TABLE 36. Solar Diurnal Variation — Horizontal Force.

Components and Coefficients of the first two periodical Terms of the Harmonic Formula.
Initial epoch: Midnight. Unity = 0.00001 c. g. s.

1889.	a_1	b_1	a_2	b_2	A_1	C_1	A_2	C_2
January	11.55	— 4.53	— 7.61	2.17	12.40	111°.41	7.92	285°.91
February	13.01	— 0.32	— 8.24	— 2.36	13.01	91.40	8.57	254.02
March	13.29	— 4.70	— 9.61	0.17	14.09	109.48	9.62	271.03
April	10.40	— 6.16	— 6.57	0.83	12.09	120.63	6.62	277.22
May	5.77	— 6.16	— 3.65	— 0.48	8.44	136.87	3.68	262.45
June	7.41	— 6.23	— 5.09	— 0.19	9.68	130.02	5.09	267.84
July	13.79	— 8.23	— 8.01	— 0.03	16.06	120.84	8.01	269.75
August	8.42	— 9.58	— 3.95	— 0.58	12.75	138.69	3.99	261.67
September	12.17	— 4.69	— 8.59	— 3.21	13.05	111.08	9.17	249.52
October	12.84	— 3.84	— 9.99	— 1.63	13.40	106.65	10.12	260.72
November	10.97	— 4.02	— 6.37	— 1.30	11.69	110.12	6.50	258.48
December	12.72	— 4.19	— 6.94	— 0.86	13.39	108.22	7.00	262.97
Year	11.01	— 5.22	— 7.05	0.62	12.19	115°.35	7.08	264°.96

TABLE 37. Solar Diurnal Variation — Total Force.

Components and Coefficients of the first two periodical Terms of the Harmonic Formula.
Initial epoch: Midnight. — Unity = 0.00001 c. g. s.

1889.	a_1	b_1	a_2	b_2	A_1	C_1	A_2	C_2
January	— 7.12	2.36	2.11	— 1.86	7.50	288°.33	2.81	131°.35
February	— 4.97	3.70	1.55	— 2.96	6.20	306.65	3.35	152.32
March	— 5.92	5.29	1.78	— 3.22	7.94	311.80	3.68	151.12
April	— 10.63	4.28	3.15	— 4.79	11.46	291.92	5.73	146.72
May	— 10.33	5.44	3.78	— 3.98	11.68	297.79	5.49	136.48
June	— 8.95	5.09	2.89	— 3.81	10.30	299.62	4.79	142.86
July	— 8.46	3.84	2.93	— 3.76	9.29	294.38	4.77	142.13
August	— 11.59	5.81	4.66	— 4.89	12.96	296.60	6.75	136.36
September	— 8.37	6.85	3.47	— 5.64	10.82	309.30	6.62	148.40
October	— 5.96	4.16	0.97	— 3.81	7.27	304.91	3.93	165.80
November	— 4.08	4.64	0.09	— 2.58	6.18	318.67	2.59	177.92
December	— 4.17	3.83	0.82	— 3.40	5.67	312.58	3.50	166.53
Year	— 7.56	4.61	2.34	— 3.72	8.86	301.40	4.39	147.84

TABLE 38. Solar Diurnal Variation — Southerly Inclination.

Components and Coefficients of the first two periodical Terms of the Harmonic Formula.
Initial epoch: Midnight.

1889.	a_1	b_1	a_2	b_2	A_1	C_1	A_2	C_2
January	1'.39	—0'.53	—0'.80	0'.28	1'.48	110°.77	0'.85	289°.55
February	1.43	—0.19	—0.83	—0.09	1.44	97.72	0.84	263.89
March	1.49	—0.67	—0.97	0.16	1.64	114.13	0.98	279.36
April	1.43	—0.76	—0.75	0.29	1.62	117.96	0.80	291.05
May	0.99	—0.81	—0.51	0.13	1.28	129.36	0.52	284.48
June	1.08	—0.80	—0.60	0.15	1.35	126.46	0.62	284.07
July	1.65	—0.93	—0.87	0.16	1.90	119.43	0.89	280.65
August	1.29	—1.14	—0.57	0.16	1.73	131.50	0.60	285.89
September	1.50	—0.74	—0.95	—0.05	1.67	116.32	0.95	267.05
October	1.45	—0.54	—0.97	0.02	1.55	110.35	0.97	271.00
November	1.20	—0.58	—0.59	—0.01	1.33	115.75	0.59	269.41
December	1.36	—0.56	—0.68	0.07	1.47	112.27	0.68	276.07
Year	1.35	—0.69	—0.76	0.11	1.52	116.97	0.77	278.05

APPENDIX.

APPENDIX.

Diurnal variation of the terrestrial-magnetic elements at St. Petersburgh and Pawlowsk.

The principal reason why the large existing store of magnetical observations, collected by different observatories, has given rise to comparatively few extensive investigations, is undoubtedly this, that the results of those observations have mostly been published in a very incomplete manner. The publication of monthly means has, in the present state of science, a very restricted value only, not equivalent to the trouble and labour expended in observing and reducing.

For the greater part of such investigations it is necessary that in the first place the daily average values be given of the three elements; in the second place quantities are wanted such as may be regarded as a measure of the variations of short duration, as diurnal variation and disturbances, these latter quantities being also given for each day separately.

In order to obtain quantities of this kind, the differences may be taken between the largest and the smallest ordinate of the curve for every day, the daily range, as has been done by English magneticians, but it is evident that, in following this method, it will frequently occur that casual deviations have an undue influence on the results and that the method of publication adopted these 20 years in the Russian Annals is by far preferable.

In these Annals the differences are given of each observation with the corresponding daily mean value, however without the twenty-four-hourly sums of these departures. When therefore I undertook investigating the phenomenon of the twenty-six-day period by application of the method indicated in Appendix II to Vol. X of the *Observations* to a large series of magnetical data, the publications of the *Pawlowsk* Observatory offered very valuable matter for this purpose but, in order to be able to extend the inquiry to both quantities, daily means and daily variations, I had first to calculate the sums of the twenty-four departures for every day separately, which sums may safely be regarded as a fair measure of the daily variability of the element.

The results of this inquiry into the HORNSTEIN period have been laid down in a paper which is being issued at present in the works of the Royal Academy of sciences at *Amsterdam*. I consider it of some importance not to keep these data to oneself, but to make them accessible by publication to any student of terrestrial magnetism, who may wish to undertake investigations of this kind.

In tables I, II and III of this Appendix these sums are given for every day and the three elements for a period of sixteen years. As a consequence of the removal of the Observatory from *St. Petersburgh* to *Pawlowsk* in December 1877, the records of the variations of the *Vertical Force* during that month are evidently uncomparable with those obtained by means of the standard balance-magnetometer for which reason they have been omitted in Table I.

When undertaking such an investigation as the one into the 26 day period a difficulty will at once present itself in the fact, that those twenty-four-hour sums may be taken as a measure of the daily variability, this expression being taken in the most general sense of the word, but that in reality they represent a complex function in which diurnal variation and disturbances are mixed up in an unknown and unresolvable manner.

In order to effectuate an approximate separation of both quantities two different methods have been adopted by Dr. WILD and the author, either of which leads, at least when applied to the *Batavian* records, to well-nigh identical results.

Both methods however require a large amount of labour, whereas for investigations as the above-mentioned, a

more superficial, less intricated method of getting rid of the larger disturbances will be sufficiently accurate to decide the question whether both quantities are subject to the same or different laws.

In the above named paper the inquiry therefore has been applied in the first place to all quantities, no purification of any kind being made; in the second place to the same data previously cleared, *à vue*, of the larger disturbances.

The results obtained in this way, however, were not free from ambiguity and, as was argued there, a more systematical way of separating the two components is highly desirable.

For this purpose I choose the well known method of SABINE of subtracting from the individual twenty-four-hourly sums the corresponding monthly mean value and omitting only the records which proved to be larger than a certain assumed value, the larger negative departures not being omitted because a disturbance always enlarges, never diminishes the sum of the departures under consideration.

For limiting value I took two times the monthly average quantity. After the first clearing fresh monthly means were calculated whereupon the remaining quantities were again cleared after the same method; and this process was carried on till none of the quantities exceeded the last limiting value.

This method starts from the a priori not unadmissable premiss that in December for instance, when the daily sums of the Declination are generally small, a certain excess may be apprehended as a disturbance, whereas the same excess in July, when the quantities are much larger, ought to be regarded as a slight irregularity or even as due simply to a diurnal variation somewhat larger than usual but corresponding to a perfectly smooth and continuous curve, or, in other terms, that the limiting value to be assumed must be proportionate to the average variability exhibited by the monthly means.

This premiss however, on which the method rests, proved to be untenable, the quantity of disturbed days indicated in this way in winter-time exceeding those found during summer-months to such an extent as to give evidence of the deficiency of the method, whereas in summer-time evidently disturbed days failed to be indicated.

It being impossible therefore to obtain reliable results by this method applied to *Declination* and *Horizontal Force* in either of which elements there is a large difference between the diurnal variations in different seasons, I was compelled to apply this method exclusively to the daily sums of the *Vertical Force* which do not exhibit such a large annual oscillation.

The disturbed days, indicated in this way, are printed in big type and those pointed out in the Tables of *Declination* and *Horizontal Force* are obtained, not in a systematical way, but simply by comparing the simultaneous records of the three elements.

For larger disturbances of the *Vertical Force* corresponding disturbances of the other elements are invariably found, for smaller disturbances however the records did not always show close agreement.

As a practical rule it has been adopted in such cases to state a disturbance whenever a maximum value, with respect to the records nearest by, occurred simultaneously with the disturbance of the *Vertical Force*. As a consequence of this method it sometimes happens that in the Tables of *Declination* and *Horizontal Force* some days are pointed out as disturbed ones, whereas on days of the same month, on which the daily aggregate values are larger, the figures are printed in common type. Tables IV, V and VI show the monthly mean values of these quantities calculated from all data; Tables VII, VIII and IX exhibit the same monthly means but calculated after omission of the marked records.

It will be seen from the latter summarizing Tables, in which, for instance, the abnormally high figure of November 1882 is reduced to its normal value, that in *St. Petersburgh*, as well as in all other places, the variations of the earth-magnetical elements are closely allied to those of the frequency of sunspots.

The same quantities, the sums of the daily departures, calculated from the series of observations of the *Declinometer*, made three times daily, published in the Annals of the *Prague* observatory are made use of in the memoir above mentioned.

Owing to want of space I must refrain from printing those valuable data at least in this Volume.

TABLE I. Vertical Force. Aggregate values of the twenty-four departures from the daily mean value for every day. Unity = 0.00001 c. g. s.

1873.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	206	185	192	333	268	191	305	399	406	218	**391**	114
2	163	**562**	**474**	**812**	193	**732**	347	170	242	**410**	**379**	149
3	**419**	256	188	**682**	139	**437**	153	216	217	73	152	102
4	301	369	243	223	116	289	331	261	347	183	82	103
5	**614**	**578**	223	207	260	170	154	293	450	187	106	120
6	**1074**	**466**	68	224	79	152	125	457	103	106	83	73
7	**676**	275	131	300	223	168	36	177	187	195	198	137
8	**2643**	231	163	130	148	138	124	12	328	64	137	68
9	241	**796**	**1684**	240	253	74	136	16	222	304	144	**350**
10	59	194	**1470**	272	225	73	**858**	36	299	259	91	**262**
11	84	214	**544**	90	194	156	98	115	73	**440**	59	83
12	**395**	199	104	221	134	324	156	253	125	**553**	**351**	**284**
13	132	197	140	334	203	105	**743**	487	190	193	**477**	150
14	**343**	234	118	157	423	185	134	176	**554**	70	**441**	107
15	181	118	283	87	149	**589**	**536**	104	**576**	70	216	**847**
16	107	139	258	84	**957**	220	**453**	143	137	99	**248**	77
17	83	55	**594**	130	237	341	406	415	128	325	135	103
18	236	134	162	**667**	334	273	328	408	73	345	142	157
19	**1409**	148	124	453	241	**467**	318	239	293	**487**	85	44
20	**324**	115	63	**540**	436	264	121	112	415	210	144	83
21	**419**	**471**	161	**719**	378	235	**462**	115	434	**736**	116	132
22	75	**442**	**614**	314	222	156	166	68	313	301	**392**	112
23	130	270	**671**	313	330	79	**551**	382	349	342	**425**	**238**
24	**580**	391	359	187	**609**	212	270	441	281	214	132	76
25	**669**	311	**492**	247	112	**519**	98	414	469	81	160	75
26	**356**	147	**408**	283	64	375	250	455	155	175	**415**	100
27	65	167	339	356	177	**1414**	240	470	64	36	**277**	45
28	55	72	286	285	208	**888**	216	178	98	323	66	86
29	**322**		182	267	415	388	145	179	153	95	31	**300**
30	83		164	136	329	**707**	259	123	**546**	212	26	68
31	113		71		168		**512**	284		80		60

TABLE I. Continued.

1874.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	176	**478**	204	**535**	207	206	154	**802**	**268**	78	72	201
2	95	85	85	**1300**	**318**	165	139	253	204	124	177	180
3	110	167	172	395	197	304	95	132	211	92	163	**252**
4	193	**1365**	108	197	**331**	**811**	6	147	93	**2578**	143	**356**
5	**398**	384	125	285	208	113	89	266	84	**1079**	69	128
6	163	**703**	192	221	92	204	83	146	174	273	**458**	86
7	93	210	**365**	**485**	70	221	351	260	82	**728**	**429**	78
8	79	40	**2497**	**1523**	58	**741**	144	**386**	9	146	147	100
9	207	277	83	**633**	63	326	172	119	5	247	179	123
10	121	**444**	171	163	182	154	148	130	**712**	203	135	209
11	140	176	60	102	103	174	**503**	69	**588**	194	**526**	127
12	190	249	195	198	231	207	291	242	**683**	207	**384**	71
13	108	228	**345**	**617**	247	230	**606**	**501**	**712**	**497**	194	69
14	136	117	130	423	122	137	**476**	249	168	**550**	235	176
15	146	364	106	244	199	217	320	313	**243**	**340**	128	110
16	**334**	85	140	361	**344**	299	148	193	80	**395**	105	204
17	**682**	209	119	199	80	119	92	208	**293**	**422**	149	87
18	**910**	235	126	105	158	211	4	169	186	111	157	76
19	**485**	153	**377**	123	174	327	13	219	67	116	96	134
20	237	271	**305**	153	89	247	218	137	79	126	222	78
21	148	193	186	120	87	60	197	225	119	130	**351**	175
22	156	261	159	115	193	106	105	127	88	104	142	184
23	99	290	104	81	186	123	183	191	119	189	**427**	192
24	169	84	158	105	182	161	355	**418**	90	53	**389**	163
25	116	132	96	341	86	148	186	75	74	137	112	127
26	193	166	272	152	**390**	**401**	125	43	69	61	109	78
27	180	234	120	79	**381**	152	114	93	179	292	142	201
28	**863**	247	106	318	**451**	151	65	84	115	65	118	126
29	180		224	**654**	210	117	225	113	**698**	147	246	140
30	240		111	420	128	115	256	132	119	188	**376**	115
31	187		173		134		337	116		143		131

TABLE I. Continued.

1875.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	59	154	185	168	126	88	131	121	185	127	115	125
2	127	200	192	91	142	132	172	138	85	200	**361**	54
3	82	165	**552**	93	135	119	74	136	245	234	**200**	36
4	146	119	78	110	114	205	148	180	237	151	107	65
5	122	89	54	120	**530**	286	239	72	55	**388**	58	84
6	123	101	78	109	**319**	101	81	92	161	**443**	48	168
7	165	137	**341**	**734**	243	231	207	121	58	**286**	68	**237**
8	255	90	**329**	**713**	147	171	107	111	89	128	51	86
9	70	74	63	140	150	192	71	104	**483**	98	100	82
10	65	225	76	78	**593**	215	118	73	157	136	**206**	38
11	77	301	**367**	103	155	141	232	114	**307**	172	156	104
12	85	209	234	129	**302**	121	119	**335**	141	149	83	92
13	89	204	182	166	69	109	150	72	149	158	**250**	104
14	95	179	164	142	85	130	**439**	126	203	182	105	128
15	81	159	198	132	123	104	**292**	126	174	255	75	121
16	204	96	184	189	100	227	173	**255**	**646**	74	87	120
17	160	110	**297**	185	93	98	**331**	39	121	87	19	180
18	161	43	113	92	130	290	206	90	152	134	73	172
19	195	87	**648**	149	153	241	138	181	125	76	139	126
20	223	38	**401**	128	158	128	102	106	134	91	94	67
21	69	289	**303**	112	74	133	51	113	262	43	132	70
22	142	297	103	159	191	92	160	175	80	32	159	48
23	105	247	111	126	258	151	103	103	79	46	148	65
24	94	104	35	**347**	220	104	105	177	98	77	69	62
25	206	**442**	117	157	109	93	79	117	143	119	68	146
26	141	**325**	155	125	148	91	123	84	72	197	63	**334**
27	145	**1655**	88	**302**	41	99	186	127	82	213	81	162
28	164	66	153	95	137	133	171	141	74	188	54	**216**
29	79		158	116	111	124	189	78	114	70	95	124
30	88		131	89	114	**352**	109	67	256	158	181	66
31	146		108		83		203	124		50		64

TABLE I. Continued.

1876.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	173	111	168	111	115	116	128	139	72	153	62	73
2	70	126	129	130	132	147	196	223	84	99	146	108
3	122	**317**	42	100	135	65	98	226	73	**354**	237	111
4	144	61	195	90	104	214	67	222	103	168	124	82
5	**261**	**341**	182	121	129	252	217	108	77	127	146	165
6	97	237	100	134	232	88	195	108	51	**458**	144	80
7	121	66	**308**	196	114	146	242	104	89	**512**	113	64
8	82	88	82	124	90	135	217	42	98	125	222	226
9	145	79	45	144	123	231	78	91	191	78	176	105
10	109	73	190	88	158	81	119	105	104	57	**423**	**733**
11	76	141	110	96	160	222	71	111	80	242	**350**	**303**
12	102	102	**310**	87	138	218	89	135	49	65	265	219
13	46	220	**375**	84	109	159	57	168	164	84	228	115
14	**383**	**319**	58	151	192	114	98	165	**383**	53	181	81
15	174	136	88	80	201	94	160	114	181	73	86	152
16	52	149	138	126	90	66	96	127	85	112	112	69
17	55	115	48	113	265	221	216	89	51	171	115	134
18	61	253	48	93	162	109	159	107	68	87	**328**	**269**
19	175	**486**	79	191	115	96	128	110	97	149	143	131
20	36	**1866**	109	166	105	50	82	112	83	131	210	138
21	183	77	93	82	100	179	156	75	88	189	113	210
22	240	154	97	95	106	143	68	78	91	198	75	**346**
23	192	80	93	92	65	126	68	103	**535**	**447**	147	**317**
24	173	179	103	155	100	114	61	106	108	**466**	97	189
25	214	185	**753**	115	**294**	139	109	213	148	**363**	60	191
26	138	220	**557**	92	202	89	92	127	185	155	290	63
27	71	190	**242**	106	205	134	107	125	**249**	147	236	96
28	146	31	160	185	168	248	134	104	131	151	79	88
29	63	64	**278**	139	158	74	255	83	87	81	134	104
30	67		**330**	125	73	183	227	**363**	95	134	68	223
31	224		**335**		120		88	168		**270**		97

TABLE I. Continued.

1877.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	60	29	117	121	128	192	70	**241**	112	**312**	86	—
2	123	126	**354**	109	221	80	94	78	114	52	91	—
3	46	**198**	101	80	**943**	94	73	108	71	83	**422**	—
4	43	169	64	124	240	70	98	75	54	83	144	—
5	155	76	69	132	94	89	80	170	51	104	70	—
6	**263**	94	64	83	93	69	99	153	62	36	139	—
7	**368**	53	91	74	132	219	107	72	101	56	84	—
8	**193**	37	45	142	80	208	**353**	109	80	77	**280**	—
9	145	107	64	131	83	57	78	69	81	34	**204**	—
10	170	54	**440**	188	64	92	161	54	43	52	186	—
11	71	**215**	147	55	**625**	105	60	69	96	94	49	—
12	65	**203**	148	71	143	165	58	78	61	**335**	73	—
13	76	149	64	85	180	177	90	39	63	**225**	50	—
14	107	87	107	49	252	**278**	88	81	59	95	38	—
15	**198**	**224**	62	**291**	115	105	86	46	95	51	118	—
16	150	128	45	143	78	111	135	93	**193**	49	86	—
17	70	68	62	79	84	100	87	115	74	80	74	—
18	48	122	59	97	74	76	71	**362**	47	109	82	—
19	73	108	80	114	110	106	97	101	**712**	89	97	—
20	85	87	102	72	129	112	57	91	**188**	146	**592**	—
21	85	**210**	100	106	**277**	105	126	174	57	109	99	—
22	30	**246**	107	110	95	84	**302**	135	87	38	93	—
23	148	84	150	**373**	155	98	115	69	47	133	57	—
24	44	107	153	181	140	146	146	59	87	132	**367**	—
25	109	61	175	190	62	**253**	67	73	96	**171**	93	—
26	**209**	75	140	139	126	121	95	71	**179**	54	37	—
27	**185**	66	65	107	107	62	73	70	134	22	87	—
28	61	48	68	97	120	136	88	141	71	114	92	—
29	83		127	101	**1525**	145	90	**304**	104	79	60	—
30	43		177	92	246	114	86	58	40	28	132	—
31	108		132		252		160	48		58		—

TABLE I. Continued.

1878.	January	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	104	**139**	59	121	116	61	69	78	78	**115**	19	**516**
2	94	**145**	29	**284**	130	147	76	47	43	33	25	73
3	33	42	148	**355**	98	**993**	61	91	65	37	22	**131**
4	20	110	81	76	69	**699**	71	103	**162**	89	**340**	48
5	88	**200**	64	186	155	90	51	76	49	45	81	27
6	22	68	77	126	66	74	81	65	65	56	35	55
7	46	**213**	67	126	89	91	126	112	96	**192**	59	44
8	64	54	68	86	148	81	154	**219**	71	68	**88**	33
9	61	75	57	82	70	74	114	72	74	51	25	30
10	84	31	108	80	11	**184**	87	60	86	40	35	24
11	110	43	**202**	37	6	**196**	134	60	42	47	9	36
12	68	37	45	117	12	**205**	79	58	71	27	42	**175**
13	51	32	74	70	10	83	131	**202**	72	54	30	**155**
14	57	80	157	95	**376**	88	151	47	127	22	**166**	86
15	35	76	70	89	**782**	72	83	75	38	38	**210**	15
16	32	42	60	**266**	120	75	81	65	45	56	**109**	64
17	53	70	41	174	68	53	146	140	78	40	55	41
18	61	69	39	179	86	97	134	108	33	**200**	48	40
19	113	49	120	166	107	65	75	62	42	**176**	**174**	49
20	76	59	75	175	101	119	45	83	46	87	68	43
21	39	43	83	170	65	97	84	68	23	**112**	32	27
22	63	**140**	71	131	103	87	90	58	29	**121**	71	17
23	92	62	87	113	126	106	66	78	109	**110**	23	76
24	**424**	50	97	79	**198**	57	119	92	88	55	21	**106**
25	66	112	152	74	117	37	152	61	39	30	35	**111**
26	74	107	143	99	148	80	116	76	**156**	56	30	74
27	38	33	109	72	75	76	151	120	86	43	22	21
28	24	115	64	135	66	18	88	93	82	49	89	26
29	57		95	94	156	65	132	109	**164**	45	77	47
30	**307**		93	99	130	114	81	125	**224**	29	76	60
31	94		83		111		91	132		14		**165**

TABLE I. Continued.

1879.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	**224**	64	55	63	62	75	133	105	**258**	64	28	**151**
2	48	36	58	60	115	90	130	**182**	83	61	50	47
3	84	32	**173**	86	96	62	83	131	67	59	41	34
4	**90**	47	67	66	82	67	45	**178**	40	111	54	40
5	26	49	91	65	69	76	**223**	90	65	90	40	40
6	26	37	53	88	37	77	**210**	83	70	106	54	40
7	35	52	**210**	78	47	93	93	78	125	99	43	53
8	27	51	116	52	68	133	104	73	74	**122**	37	**201**
9	41	33	**178**	126	107	**177**	86	72	36	100	42	49
10	28	82	139	67	68	119	90	**196**	**295**	62	39	**110**
11	25	28	68	103	57	63	40	119	**239**	49	**134**	**381**
12	31	47	43	76	108	61	51	89	**194**	35	**102**	**126**
13	26	65	91	**193**	134	131	66	80	66	35	**115**	34
14	65	31	54	101	**188**	54	54	47	29	51	81	57
15	32	47	82	147	109	134	98	79	36	40	69	28
16	**148**	39	158	47	47	72	40	100	66	80	47	30
17	34	47	122	43	60	157	57	65	81	46	27	**147**
18	39	85	64	158	70	**323**	93	84	52	43	30	31
19	62	60	42	161	51	65	92	55	69	39	**138**	34
20	**156**	44	114	**388**	162	72	71	44	127	55	26	60
21	47	87	71	122	72	39	71	90	39	53	48	53
22	30	52	114	119	85	95	50	72	50	25	30	**219**
23	37	29	**303**	90	90	59	65	89	66	47	25	85
24	33	83	63	55	**452**	81	62	77	58	88	46	23
25	52	101	74	92	145	94	118	102	52	55	54	**108**
26	35	53	98	61	71	160	79	82	111	51	62	50
27	78	82	57	78	76	**204**	43	63	69	25	**116**	94
28	76	47	50	85	80	58	44	81	74	27	**103**	67
29	50		**234**	81	108	50	104	92	61	22	57	53
30	58		119	45	**205**	62	70	107	83	**165**	55	59
31	36		63		153		57	92		100		71

TABLE I. Continued.

1880.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	63	59	76	99	**211**	95	73	182	**325**	115	66	**485**
3	37	59	107	180	**971**	86	**265**	264	**184**	42	79	146
2	**114**	80	102	145	**215**	77	98	150	90	64	**634**	168
4	46	75	64	64	120	119	72	103	43	79	**393**	69
5	57	28	83	135	97	115	102	**361**	113	40	87	**199**
6	26	**178**	52	62	108	71	151	216	**172**	42	127	153
7	**135**	101	**337**	93	88	132	80	**311**	64	66	68	160
8	81	33	31	100	103	124	33	115	64	131	**143**	86
9	59	41	67	68	86	69	77	244	58	81	76	53
10	54	50	34	80	114	118	75	98	95	101	**173**	106
11	36	66	69	62	49	88	130	**513**	85	129	119	**425**
12	29	93	113	93	96	76	140	**2324**	122	81	98	46
13	26	49	**219**	66	114	104	171	**1890**	90	142	38	**474**
14	31	57	**298**	63	130	78	**361**	**1271**	61	43	27	114
15	45	89	34	149	**291**	170	186	188	**1092**	144	39	61
16	43	52	67	150	82	197	201	**362**	**224**	101	41	39
17	**143**	76	**333**	91	115	146	40	65	101	**213**	29	31
18	**132**	17	**375**	92	91	189	92	101	60	39	34	74
19	47	52	84	**347**	95	74	191	**1232**	38	72	84	**332**
20	85	76	85	71	66	168	**295**	262	95	54	**464**	128
21	89	53	32	141	106	88	158	47	92	156	**328**	120
22	39	47	85	194	68	102	201	66	**328**	167	87	48
23	**210**	69	86	79	107	**328**	164	100	61	**206**	72	141
24	24	57	90	110	100	218	95	114	56	**477**	67	56
25	53	26	102	127	66	93	79	71	62	**409**	50	38
26	45	56	128	97	**281**	76	125	**339**	**238**	**508**	31	125
27	61	48	**172**	72	**393**	57	131	146	**242**	**500**	**250**	86
28	35	52	65	**304**	**369**	105	129	153	**529**	**461**	51	46
29	**107**	59	78	187	**224**	105	164	162	**269**	91	130	**262**
30	94		92	107	145	49	188	65	**276**	36	**251**	59
31	73		116		105		175	80		**582**		66

TABLE I. Continued.

1881.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	55	**466**	73	**363**	96	112	202	61	129	137	69	169
2	44	31	167	185	102	132	**418**	72	72	65	**246**	171
3	42	55	**445**	161	60	132	**1058**	83	124	97	**380**	115
4	**135**	141	**287**	112	76	**509**	95	124	62	95	**267**	71
5	78	68	84	84	97	**474**	110	92	160	103	148	75
6	37	**269**	100	75	176	**921**	84	134	103	120	144	204
7	57	150	**228**	88	99	155	118	**268**	97	**269**	59	106
8	47	99	165	102	76	**328**	193	**212**	60	**319**	**237**	**398**
9	27	78	57	79	**424**	190	202	70	**315**	**302**	**1189**	**396**
10	**193**	26	79	70	156	164	251	45	**226**	80	48	150
11	103	78	**183**	75	143	**406**	200	48	168	86	74	128
12	36	87	**283**	102	81	163	**446**	107	**711**	78	23	164
13	33	78	**345**	179	79	146	**370**	153	**1852**	32	63	57
14	35	49	101	181	95	68	192	127	**368**	95	44	64
15	112	**277**	57	69	103	84	124	68	**285**	61	151	74
16	100	**238**	66	141	101	78	156	151	95	64	145	155
17	86	78	60	138	154	109	156	89	123	**279**	108	53
18	46	99	151	117	106	134	126	151	59	94	76	39
19	44	37	**440**	**281**	125	115	96	88	88	153	114	163
20	31	154	72	186	86	124	83	90	148	96	110	81
21	96	**206**	60	**545**	95	61	97	76	173	126	39	102
22	**203**	62	61	75	116	130	152	67	67	67	49	50
23	**203**	75	71	106	81	177	102	86	48	60	**219**	193
24	**144**	83	57	120	91	124	226	60	65	55	**431**	**498**
25	**255**	34	91	105	125	125	79	123	139	88	90	215
26	**234**	100	90	116	201	182	73	148	140	66	78	108
27	87	**544**	90	128	169	87	166	133	64	**271**	**299**	88
28	73	**234**	53	144	125	63	202	85	115	137	**192**	141
29	29		91	119	84	133	104	90	120	71	**276**	115
30	47		98	111	130	93	158	75	97	145	**287**	131
31	**1942**		**231**		99		93	99		**317**		57

TABLE I. Continued.

1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	37	**188**	69	122	342	143	66	**932**	75	53	110	116
2	68	**239**	41	199	**526**	**369**	151	118	128	**1997**	91	106
3	80	138	135	185	**751**	119	93	122	**210**	270	168	89
4	79	60	244	**467**	269	94	198	256	93	200	47	166
5	114	152	130	241	20	121	109	**1216**	**367**	**497**	75	108
6	55	**499**	101	227	116	181	109	145	**226**	**1665**	59	49
7	37	**218**	98	171	158	168	211	223	77	69	138	74
8	103	**225**	203	167	154	115	124	61	74	73	105	28
9	**195**	**238**	**506**	182	158	159	**284**	108	82	112	200	**199**
10	47	**264**	159	121	179	129	121	**477**	79	225	95	66
11	107	86	114	105	158	102	100	256	61	110	84	69
12	148	88	109	143	269	133	116	**658**	**250**	66	**822**	130
13	83	121	93	127	94	94	75	111	142	58	**2035**	49
14	74	67	248	**572**	**1125**	147	91	224	147	102	**658**	40
15	13	57	212	226	**634**	247	115	138	67	273	**246**	58
16	89	67	198	252	104	**687**	134	170	62	206	73	**493**
17	58	56	61	**2647**	359	**327**	**562**	196	84	279	**2576**	31
18	44	**276**	52	171	174	123	118	176	138	109	**3181**	83
19	**278**	107	151	139	174	67	134	180	67	52	**761**	**215**
20	**690**	**346**	230	**1171**	302	262	115	70	67	36	**3025**	**428**
21	**263**	87	258	**767**	171	**296**	113	55	122	37	**1345**	**1153**
22	112	98	175	365	390	224	69	294	46	290	**307**	**211**
23	125	52	156	220	154	88	81	49	113	292	178	128
24	130	76	111	331	62	**816**	128	81	76	248	137	95
25	60	3	89	95	149	**640**	97	144	**472**	268	**397**	72
26	103	53	97	132	355	132	174	189	108	73	**458**	76
27	45	35	238	114	191	**405**	116	125	**200**	112	164	59
28	85	113	174	108	**452**	134	63	179	82	**455**	72	**205**
29	51		82	343	**696**	172	77	213	64	**351**	67	**207**
30	**209**		83	**463**	384	77	175	161	83	130	120	132
31	59		70		209		**601**	122		66		103

TABLE I. Continued.

1883.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	91	**250**	**510**	119	86	109	**659**	**599**	74	88	121	**216**
2	55	**357**	**536**	101	**269**	**592**	**632**	225	150	32	**430**	**401**
3	43	**350**	227	**2147**	72	133	76	79	**240**	63	**919**	47
4	31	**224**	131	**701**	56	78	143	82	53	90	98	44
5	61	153	145	**249**	121	75	207	164	191	**423**	52	22
6	**225**	170	102	108	112	188	238	**437**	**179**	**414**	97	71
7	**305**	44	190	72	95	111	157	222	54	**225**	58	18
8	82	83	**323**	129	71	157	**346**	198	67	85	45	32
9	49	66	**309**	82	103	193	82	66	73	42	42	**286**
10	35	70	101	67	80	94	150	95	104	47	58	80
11	68	26	88	57	52	105	266	127	71	61	33	**142**
12	63	44	123	85	55	79	**510**	114	50	65	100	**149**
13	51	29	**447**	112	158	96	124	115	**239**	**138**	138	**115**
14	56	169	101	74	143	90	**409**	85	168	80	**177**	**151**
15	90	57	55	108	93	89	144	113	64	**315**	56	37
16	37	96	92	97	198	42	197	79	**1150**	**491**	29	13
17	138	130	58	96	110	**314**	108	56	**1623**	**544**	42	**127**
18	79	145	104	207	205	**454**	131	**452**	137	**269**	36	**166**
19	90	65	79	**446**	172	151	264	**331**	173	**241**	55	78
20	152	159	71	**609**	151	169	151	88	81	**338**	**668**	74
21	113	97	202	105	**969**	128	111	68	72	55	100	46
22	96	**499**	**555**	55	**497**	148	75	132	38	**136**	**1277**	29
23	62	**621**	213	81	196	**386**	87	217	61	54	**591**	43
24	97	**564**	92	**709**	118	122	**323**	143	135	47	134	25
25	**203**	**951**	106	**978**	138	157	199	64	**407**	31	47	**105**
26	**252**	146	208	206	182	156	218	55	150	47	15	**120**
27	159	**324**	**1202**	**232**	112	**476**	164	120	28	63	**236**	46
28	133	**637**	**388**	119	212	194	71	87	126	60	128	**214**
29	126		**393**	113	116	84	90	129	189	60	95	87
30	77		212	130	139	**635**	**969**	87	150	42	45	58
31	99		97		128		**947**	84		56		42

TABLE I. Continued.

1884.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	28	99	**541**	198	253	**290**	98	140	60	19	133	56
2	56	**216**	**619**	70	43	**852**	199	162	51	**574**	**610**	64
3	43	57	**382**	113	108	88	**1159**	109	116	**901**	**2023**	66
4	24	168	50	64	105	118	**1353**	71	45	124	**266**	56
5	67	166	43	93	77	71	139	98	71	152	44	74
6	31	72	49	60	108	119	226	141	101	97	141	46
7	54	39	138	70	100	121	117	85	56	**413**	171	44
8	**109**	73	231	100	121	84	216	**262**	44	44	97	**180**
9	93	95	91	74	91	110	70	**275**	43	68	**174**	98
10	56	41	59	161	**277**	107	89	189	**204**	99	**169**	68
11	**132**	67	40	228	224	97	57	100	**224**	56	**194**	**208**
12	**257**	41	57	144	225	102	130	59	114	39	57	67
13	**127**	75	72	89	102	163	109	179	**218**	54	61	32
14	27	19	104	114	117	**236**	**364**	189	**539**	**267**	38	**205**
15	**170**	56	65	**376**	233	78	134	134	**177**	**300**	40	**620**
16	76	113	79	284	108	93	167	33	49	**165**	28	**230**
17	50	83	137	277	136	125	97	77	**189**	**271**	107	57
18	32	141	78	**613**	83	71	104	111	**1029**	57	94	58
19	**119**	62	142	269	250	**307**	148	69	**207**	101	**196**	43
20	39	41	192	264	173	67	237	114	49	52	104	**209**
21	44	41	**248**	250	85	80	67	**429**	**161**	120	49	68
22	43	40	123	109	214	**240**	87	**331**	75	30	40	58
23	48	148	217	155	**318**	**589**	115	111	90	33	144	**208**
24	43	**351**	226	**345**	81	**246**	76	78	87	43	113	34
25	43	**184**	123	**831**	65	69	161	128	57	**164**	85	**129**
26	**294**	128	128	188	143	118	**370**	40	39	**219**	32	53
27	73	104	86	285	146	64	211	117	53	37	21	38
28	49	114	230	113	130	205	86	78	89	37	**370**	**129**
29	52	134	**765**	78	109	98	160	83	39	**190**	54	57
30	59		108	149	112	116	76	74	74	66	78	86
31	62		153		134		64	65		51		71

TABLE I. Continued.

1885.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	155	154	301	194	70	120	223	**570**	165	160	181	79
2	376	183	217	76	173	231	265	227	159	149	54	122
3	218	180	136	202	98	90	123	221	101	178	84	106
4	81	180	100	117	155	305	98	269	**517**	55	109	60
5	122	287	71	78	190	174	154	142	**467**	139	151	29
6	158	225	142	107	237	113	212	119	196	135	152	**241**
7	271	127	135	114	138	108	128	353	168	123	143	**264**
8	295	187	64	**449**	177	114	100	354	218	65	**329**	**342**
9	328	121	77	136	180	126	123	125	148	192	70	173
10	169	**415**	119	110	230	154	120	127	119	74	**506**	135
11	194	137	171	159	**718**	171	91	95	161	43	**602**	116
12	170	**416**	**292**	74	342	118	170	166	151	188	**235**	79
13	257	287	**320**	281	**613**	179	146	52	104	270	103	88
14	237	73	127	91	**908**	141	102	63	59	162	47	104
15	212	161	**1219**	**350**	353	174	114	61	**515**	284	56	112
16	238	243	**1172**	209	194	209	135	105	**740**	286	74	117
17	112	245	220	162	187	187	191	311	172	99	83	60
18	141	207	161	159	175	160	304	149	120	135	**239**	125
19	184	154	87	273	135	177	113	70	106	86	185	160
20	112	145	152	124	100	**344**	258	193	102	199	95	117
21	90	254	255	129	126	145	261	254	103	32	62	98
22	**527**	296	212	60	82	311	156	201	210	276	82	181
23	345	137	142	87	115	272	149	199	**403**	175	51	123
24	301	61	84	178	196	75	136	125	242	138	69	98
25	309	67	93	125	**461**	**1500**	**427**	100	290	150	140	154
26	237	118	93	181	282	**607**	219	248	123	110	137	95
27	182	349	94	247	**677**	122	162	153	288	175	62	117
28	257	285	103	293	**954**	98	115	**511**	213	100	55	**259**
29	94		56	94	176	84	130	**495**	82	128	63	67
30	**510**		55	58	311	300	198	270	147	233	110	57
31	91		93		171		112	234		218		54

TABLE I. Continued.

1886.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	120	100	108	**586**	227	96	328	129	101	218	40	161
2	257	145	110	232	142	176	289	99	144	206	**236**	**347**
3	184	98	228	162	217	197	196	120	145	184	**554**	250
4	239	64	69	99	210	120	182	101	97	106	**434**	138
5	118	177	101	124	142	216	105	132	40	225	**374**	129
6	63	88	183	90	210	263	98	123	38	**553**	**396**	163
7	83	66	**303**	82	122	214	83	183	90	**726**	**215**	169
8	70	149	132	76	245	296	124	138	100	**603**	118	**292**
9	**921**	35	98	77	**1331**	209	138	70	180	**588**	111	88
10	**319**	154	118	104	**394**	70	74	97	**572**	**515**	117	36
11	181	**465**	94	152	**377**	113	197	236	**560**	246	129	102
12	138	152	74	375	260	269	131	**755**	**401**	190	**223**	104
13	86	99	60	**472**	209	186	66	209	**339**	175	**278**	160
14	72	147	56	**606**	256	187	288	**391**	**290**	188	103	80
15	**355**	143	52	**752**	208	102	224	240	98	206	149	107
16	153	208	240	336	99	92	197	259	44	156	80	152
17	47	**267**	262	239	332	145	140	263	116	287	62	126
18	72	185	**330**	**431**	**366**	209	131	231	101	274	31	108
19	242	**306**	**454**	322	131	233	370	163	79	170	94	121
20	170	168	**457**	233	94	110	271	153	57	150	137	43
21	165	**274**	197	324	236	136	352	179	**268**	145	73	93
22	**331**	**336**	**379**	123	117	**546**	239	77	149	93	95	88
23	133	149	**463**	125	109	226	221	99	92	59	**198**	175
24	158	96	176	179	156	197	230	**328**	119	35	157	69
25	60	87	135	149	113	285	233	126	65	56	83	66
26	67	106	94	147	154	287	235	116	77	74	68	166
27	105	124	**298**	164	172	174	**518**	38	90	134	45	165
28	134	143	169	250	153	107	**1184**	71	75	181	54	165
29	167		198	272	116	240	184	71	107	200	96	250
30	**449**		**1237**	329	131	**856**	137	51	183	175	**298**	152
31	225		**1500**		80		72	39		133		66

TABLE I. Continued.

1887.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	52	190	95	129	135	**227**	92	267	**355**	108	105	141
2	91	171	72	210	202	115	95	**862**	**301**	93	73	67
3	300	71	94	236	**350**	140	41	**436**	210	109	94	21
4	256	330	69	116	246	106	101	368	167	59	75	25
5	217	101	85	**357**	232	**599**	109	365	109	60	161	103
6	205	96	**265**	**409**	160	106	**268**	299	92	113	146	107
7	150	115	159	**443**	110	81	**699**	149	54	133	113	112
8	178	82	**237**	251	125	105	**282**	140	75	135	124	61
9	204	119	**414**	197	80	134	211	172	95	95	**239**	57
10	33	125	110	139	85	**307**	191	150	185	109	**328**	20
11	153	206	89	195	71	105	213	159	116	113	80	44
12	73	237	96	200	183	81	**258**	129	173	150	61	147
13	91	**434**	85	54	262	**237**	**294**	98	64	190	143	197
14	151	313	154	79	228	88	136	177	54	132	43	119
15	305	318	110	178	114	53	80	258	99	120	40	93
16	193	162	203	101	90	91	151	138	199	158	35	**296**
17	166	179	74	200	84	83	76	141	93	49	61	**277**
18	212	93	70	103	154	103	111	95	57	71	105	161
19	185	68	131	99	147	143	127	82	95	73	124	**301**
20	119	337	196	102	83	79	**249**	60	100	45	211	114
21	60	334	159	57	79	162	72	171	74	38	**678**	151
22	90	165	172	159	105	**263**	110	167	53	**334**	**285**	**579**
23	218	239	167	157	76	112	88	158	138	**338**	117	40
24	319	109	**371**	292	**448**	88	109	196	200	217	118	82
25	339	92	58	225	**385**	125	78	211	**402**	88	106	109
26	340	99	94	56	149	79	127	80	**1622**	**416**	**281**	**278**
27	296	211	99	92	211	81	93	190	**609**	**451**	**255**	119
28	117	129	64	**399**	206	79	68	362	**542**	**252**	187	156
29	190		36	224	135	56	119	**556**	235	**303**	202	112
30	94		102	137	165	147	120	298	141	**245**	164	119
31	112		78		177		**239**	149		223		193

TABLE I. Continued.

1888.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	56	78	184	85	198	95	**550**	96	136	112	**319**	90
2	73	75	248	100	90	69	241	94	121	104	114	95
3	109	86	230	**247**	127	**346**	247	**293**	135	117	51	147
4	45	108	262	**316**	135	**335**	33	**561**	43	210	168	127
5	28	162	333	156	92	234	81	84	52	239	**220**	123
6	166	185	281	120	88	225	99	167	47	137	126	133
7	111	104	294	88	**439**	157	125	130	131	69	**227**	55
8	**744**	114	266	100	**455**	114	186	161	97	126	184	**365**
9	52	177	369	76	**280**	149	152	122	87	191	81	116
10	83	156	165	52	216	171	142	87	72	180	48	51
11	123	212	181	**578**	156	179	82	67	124	205	157	61
12	173	157	93	**600**	160	184	62	189	118	174	164	80
13	**540**	74	72	**331**	191	133	89	89	274	148	94	114
14	**256**	57	96	**271**	109	145	99	78	222	101	115	172
15	147	57	204	201	78	96	67	72	**333**	39	92	170
16	65	106	**634**	73	99	143	185	**342**	270	54	**239**	95
17	75	104	**561**	98	97	124	161	**301**	141	82	**135**	38
18	109	95	386	87	68	162	151	**426**	197	46	113	57
19	92	222	303	90	153	163	106	166	**391**	208	152	53
20	140	239	212	119	146	173	202	113	**296**	**431**	120	29
21	197	219	209	96	**1014**	179	192	177	92	**386**	96	78
22	153	123	209	87	96	**361**	198	179	112	209	74	28
23	**432**	135	232	80	136	236	225	96	49	192	47	43
24	**402**	129	201	106	240	240	132	134	63	239	28	**286**
25	137	135	238	169	124	172	64	60	170	282	35	125
26	76	164	193	108	187	171	98	32	176	247	73	146
27	146	39	146	86	168	104	86	94	219	246	82	111
28	159	86	109	112	156	91	145	71	191	235	129	81
29	143	153	82	113	88	102	190	113	194	233	95	32
30	94		74	108	88	86	118	84	213	171	71	81
31	131		141		101		101	208		244		68

TABLE II. Horizontal Force. Aggregate values of the twenty-four departures from the daily mean value for every day. Unity = 0.00001 c. g. s.

1873.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	312	176	279	401	346	564	462	351	334	290	**510**	101
2	150	**239**	**392**	**502**	331	**657**	384	235	312	271	192	104
3	**414**	137	255	**450**	344	**545**	364	269	267	**370**	134	82
4	245	**470**	278	395	263	392	468	241	303	294	142	88
5	**550**	259	393	355	277	477	275	221	312	304	183	118
6	**545**	231	274	426	394	266	292	469	289	195	152	139
7	**425**	273	213	493	470	298	272	379	273	219	234	149
8	**1047**	317	242	329	443	233	160	129	326	191	162	80
9	**355**	**474**	**1359**	492	306	344	398	35	257	278	141	**231**
10	129	198	**1009**	473	304	187	**596**	41	350	188	110	158
11	185	228	**434**	393	376	363	376	260	198	**336**	132	89
12	247	233	201	454	343	554	**489**	378	265	268	**383**	216
13	170	126	283	387	434	456	**462**	561	**345**	221	**339**	131
14	204	313	295	412	332	299	83	271	**495**	201	**296**	93
15	127	146	311	447	443	**492**	169	299	295	274	221	**281**
16	142	230	**363**	445	**766**	425	**359**	268	237	245	195	162
17	151	220	345	397	436	386	**648**	417	245	241	117	91
18	206	208	342	**777**	413	438	**699**	462	281	298	79	83
19	**570**	256	259	**527**	357	**543**	421	370	326	292	163	36
20	247	**313**	303	**576**	426	**640**	376	413	502	178	84	63
21	273	**311**	302	**653**	338	432	**464**	343	281	249	114	143
22	137	222	**434**	550	400	313	408	347	275	265	**375**	108
23	143	197	**503**	405	461	326	**622**	358	383	303	235	**291**
24	**309**	264	307	397	**535**	413	465	580	239	233	168	105
25	**353**	235	**404**	483	316	**576**	315	466	297	177	**391**	78
26	191	149	309	616	396	**553**	426	489	361	156	**307**	180
27	**337**	211	307	481	296	**1176**	454	521	328	134	226	112
28	31	241	326	414	308	**760**	491	392	366	277	115	111
29	163		292	411	537	466	307	444	328	187	131	**196**
30	195		386	400	562	**530**	**474**	375	**408**	220	157	72
31	223		392		262		**545**	396		141		121

TABLE II. Continued.

1874.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	118	**242**	158	305	348	385	358	**468**	**281**	164	128	137
2	114	149	188	**687**	**414**	372	388	459	**279**	251	154	152
3	78	271	227	**427**	340	481	387	349	220	396	170	**226**
4	144	**1597**	225	357	**426**	**603**	371	332	**349**	**1362**	138	**199**
5	**297**	**307**	294	276	381	376	265	304	314	**745**	132	170
6	165	222	241	296	282	372	302	260	206	293	**352**	102
7	120	**251**	**401**	**366**	366	488	270	278	322	287	176	59
8	100	189	**1032**	**648**	311	**598**	283	**316**	274	253	160	85
9	107	95	166	**353**	294	426	270	289	292	276	123	159
10	63	225	234	198	249	313	409	283	**635**	187	145	125
11	134	221	233	227	317	283	**496**	424	329	212	**297**	69
12	133	161	181	306	232	227	**539**	438	402	333	**242**	59
13	148	244	**462**	**567**	283	375	**571**	**527**	468	**424**	**257**	86
14	122	150	251	402	247	336	520	427	240	**376**	133	47
15	218	220	260	321	302	363	410	322	196	176	81	211
16	**414**	115	298	432	**358**	372	416	362	131	297	90	200
17	289	204	247	363	347	438	376	311	**331**	**376**	103	72
18	**448**	210	256	272	343	472	305	286	242	137	87	65
19	**360**	154	**299**	315	307	354	365	335	176	101	105	167
20	227	232	233	343	283	266	330	271	209	124	173	48
21	133	153	239	331	332	263	310	222	188	188	**214**	169
22	80	166	255	327	292	188	282	182	265	159	123	274
23	98	130	208	233	312	271	288	**325**	158	156	**283**	**199**
24	190	124	187	225	259	263	395	299	253	142	**295**	131
25	120	112	226	283	229	249	325	276	216	162	85	62
26	144	149	253	232	**478**	**356**	138	244	199	167	121	48
27	309	236	298	219	**615**	318	214	272	309	**335**	115	63
28	**343**	180	352	236	351	337	247	260	251	136	85	79
29	108		339	**609**	407	294	302	249	**549**	170	119	124
30	194		178	419	347	276	189	311	247	172	**338**	84
31	147		188		354		469	**359**		95		82

TABLE II. Continued.

1875.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	122	67	156	240	302	302	278	209	277	187	183	130
2	155	130	227	236	246	337	280	255	270	**358**	**405**	93
3	131	105	**331**	260	310	393	290	192	273	211	211	143
4	103	61	106	186	337	366	263	217	303	178	206	30
5	64	110	121	260	**513**	367	272	195	262	**451**	75	69
6	82	44	131	201	324	288	312	181	261	222	87	**219**
7	178	175	186	**752**	**341**	265	272	226	178	**304**	89	97
8	132	94	**344**	**490**	262	315	259	255	177	170	86	50
9	67	91	160	237	230	357	244	218	**433**	248	131	83
10	77	238	168	218	**520**	323	313	315	212	182	**284**	66
11	85	249	215	271	389	304	290	289	172	176	51	74
12	48	210	161	165	**394**	224	199	**343**	205	158	136	45
13	64	186	165	209	184	297	**392**	183	186	146	**216**	71
14	65	159	153	300	273	286	**457**	235	273	130	126	118
15	58	94	139	228	207	283	**353**	260	195	351	54	59
16	191	39	160	338	297	237	**374**	251	**730**	111	65	121
17	138	72	241	232	249	446	328	230	211	198	64	196
18	82	38	183	250	278	436	269	238	218	132	91	132
19	107	52	**424**	277	290	354	232	271	213	72	91	132
20	91	42	**298**	309	277	310	268	269	205	129	123	80
21	67	266	255	241	238	266	223	311	260	151	161	84
22	140	129	257	199	374	274	311	332	212	142	187	61
23	73	126	228	277	461	217	209	348	228	146	125	52
24	102	81	216	**401**	343	277	264	283	268	71	70	68
25	225	**207**	156	198	349	259	300	187	204	242	117	136
26	114	**191**	222	367	308	284	226	234	197	188	55	**290**
27	52	**1205**	206	**405**	307	290	279	263	203	230	94	115
28	124	**220**	248	317	261	277	191	179	223	111	65	73
29	85		255	240	283	239	292	274	213	64	89	89
30	86		221	293	300	**447**	327	207	272	61	172	73
31	132		251		362		278	219		93		61

TABLE II. Continued.

1876.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	71	82	125	242	224	302	272	382	204	190	142	111
2	145	79	127	162	160	286	279	402	224	206	148	63
3	73	65	81	223	168	269	218	383	252	**270**	257	61
4	116	108	130	158	193	297	264	336	245	228	123	51
5	**188**	**359**	154	207	283	280	183	191	154	137	152	55
6	104	119	121	152	257	273	255	202	206	**313**	122	83
7	56	50	**166**	145	184	275	306	160	184	205	89	46
8	100	88	104	170	250	273	309	220	280	161	82	62
9	39	63	82	224	268	271	236	236	336	183	65	53
10	94	143	139	245	243	281	278	269	185	171	**431**	**566**
10	71	166	129	230	209	276	319	311	157	**387**	126	195
12	38	59	**250**	171	239	288	283	294	155	182	186	94
13	56	**165**	**223**	238	269	217	205	335	165	131	**341**	83
14	**314**	142	125	221	191	215	293	292	**263**	120	162	79
15	111	94	129	228	215	255	256	222	181	141	234	52
16	93	122	141	198	210	254	275	275	135	298	133	50
17	86	151	118	147	222	320	307	178	154	213	85	157
18	53	144	149	250	187	237	277	223	163	148	**300**	**210**
19	115	**566**	203	210	208	295	246	272	152	159	159	150
20	125	**849**	161	261	226	267	254	267	242	179	104	80
21	90	94	197	225	185	221	239	231	241	248	94	97
22	222	90	220	238	210	242	324	233	**337**	132	75	**242**
23	263	56	251	272	247	280	301	322	**362**	**303**	68	**174**
24	142	77	219	282	312	258	304	296	261	**320**	52	100
25	139	196	**563**	253	**496**	293	310	229	211	184	61	85
26	128	219	**307**	183	**403**	340	366	223	237	96	264	83
27	109	161	**226**	259	328	326	257	340	**374**	72	173	72
28	98	91	**234**	267	254	343	331	232	237	64	61	72
29	63	84	**383**	156	259	237	310	246	209	92	66	85
30	76		**331**	181	256	282	356	**409**	188	139	71	71
31	183		**383**		204		280	284		221		58

TABLE II. Continued.

1877.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	55	97	140	241	301	313	275	**343**	200	**316**	106	61
2	46	128	**322**	220	298	223	291	227	211	161	144	115
3	40	**171**	171	222	**546**	265	299	255	201	149	**363**	203
4	41	136	170	201	417	228	255	194	147	166	174	**291**
5	73	70	82	198	262	271	253	332	119	90	158	**261**
6	**354**	99	76	274	214	271	316	267	147	142	171	123
7	**318**	48	81	179	236	407	213	305	140	119	156	98
8	**155**	112	78	**346**	186	310	**360**	292	226	159	**185**	50
9	105	101	123	232	235	291	314	225	255	142	**153**	46
10	92	77	**542**	274	325	292	349	212	320	141	143	151
11	65	**182**	190	222	**486**	311	258	262	315	206	104	65
12	85	**154**	179	228	**401**	**375**	224	247	216	**515**	61	**290**
13	84	125	142	256	309	**344**	308	226	218	218	84	142
14	103	118	141	273	414	**362**	294	205	264	133	49	72
15	**152**	**137**	154	**479**	284	311	301	232	207	185	64	30
16	124	95	130	257	290	277	214	301	**293**	165	39	161
17	69	101	160	231	235	311	260	265	182	119	108	93
18	74	137	133	238	214	240	265	**367**	162	222	74	48
19	147	140	122	278	271	189	196	275	**640**	127	210	53
20	102	**157**	172	205	243	320	277	185	171	154	**499**	48
21	169	123	148	235	269	229	389	230	184	231	115	70
22	61	124	193	253	**329**	259	**417**	181	179	147	48	92
23	202	69	143	221	265	284	269	237	165	174	99	68
24	106	115	293	**266**	206	363	332	212	181	165	**236**	70
25	111	77	156	235	251	**446**	310	242	154	**277**	69	97
26	**123**	107	204	238	322	282	307	300	232	119	49	77
27	**197**	99	176	**301**	183	352	296	203	224	126	66	47
28	122	92	236	247	265	320	301	241	**261**	139	45	109
29	103		248	280	**864**	344	260	**341**	**310**	164	54	94
30	55		241	294	353	285	268	215	214	111	71	80
31	87		176		311		306	260		145		55

TABLE II. Continued.

1878.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	119	71	91	200	240	241	223	219	221	110	78	**561**
2	57	49	93	240	230	269	213	144	263	133	62	145
3	77	37	76	**358**	169	**931**	162	193	207	138	93	98
4	78	64	63	143	164	290	203	189	179	157	**462**	49
5	102	117	118	264	205	364	253	241	**250**	117	111	83
6	57	131	83	232	220	224	346	216	201	116	84	118
7	62	**236**	105	277	198	344	250	**246**	234	**181**	100	81
8	47	108	81	243	122	190	218	208	204	101	88	49
9	60	75	86	309	125	247	223	123	164	170	68	82
10	116	66	147	218	208	266	235	214	191	165	58	46
11	141	85	**197**	191	195	**328**	171	196	191	133	63	56
12	78	87	120	148	159	253	175	161	190	92	53	**237**
13	51	45	89	167	219	241	147	**216**	215	112	75	179
14	71	73	127	206	279	176	242	161	212	110	**211**	121
15	47	167	163	206	**570**	240	250	**259**	107	121	119	57
19	67	80	139	**377**	273	222	265	164	160	118	128	111
17	45	104	130	249	219	290	265	163	204	103	82	93
18	59	167	126	323	308	235	278	207	143	**322**	83	99
19	117	93	170	320	219	207	177	172	177	**160**	151	128
20	118	92	173	320	241	204	185	112	134	135	107	102
21	66	41	205	245	239	200	303	248	122	**178**	61	57
22	104	55	179	179	147	171	225	187	136	105	85	65
23	74	43	207	216	193	265	167	259	190	**157**	51	**197**
24	**545**	91	194	203	**276**	229	191	209	184	49	42	92
25	120	128	180	223	173	194	143	174	209	57	56	**138**
26	80	89	192	200	188	219	156	171	**268**	51	42	47
27	78	99	164	252	167	241	186	179	247	47	48	78
28	59	138	174	238	128	23	151	175	223	67	88	106
29	64		173	190	224	326	204	215	**385**	99	113	125
30	57		218	192	218	219	228	186	205	63	117	99
31	92		159		250		197	306		82		**282**

TABLE II. Continued.

1879.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	**110**	54	101	127	142	244	261	**334**	**447**	231	140	**150**
2	89	59	87	184	192	182	227	281	283	196	121	56
3	41	57	**252**	237	205	211	183	281	265	205	83	36
4	**138**	94	92	174	181	293	217	274	238	**293**	135	60
5	56	75	149	190	132	292	279	228	225	172	93	72
6	74	77	73	191	203	275	**414**	171	257	291	160	59
7	60	87	**154**	222	175	**363**	300	211	183	194	77	135
8	42	54	92	245	192	275	291	232	218	175	58	**259**
9	56	89	**180**	181	183	243	322	236	225	**199**	88	84
10	80	106	159	232	227	332	279	**353**	200	160	57	159
11	49	52	110	236	**269**	315	336	245	232	158	**189**	**377**
12	58	68	148	204	**249**	168	240	204	**415**	128	129	90
13	59	73	144	**236**	244	206	291	241	126	140	**146**	51
14	79	83	106	225	**249**	183	238	237	153	199	**169**	51
15	72	95	117	220	174	226	271	259	172	97	129	51
16	**151**	101	156	187	145	257	246	236	128	108	68	74
17	63	65	129	164	271	266	234	249	159	143	80	**303**
18	59	130	145	225	125	**387**	323	206	185	132	94	75
19	48	94	202	221	217	216	230	206	196	106	**162**	57
20	**269**	66	161	**277**	257	175	221	249	185	161	68	52
21	47	55	199	113	184	277	210	210	221	79	78	57
22	69	78	178	186	266	226	267	286	207	68	50	**254**
23	108	48	**269**	224	**345**	282	282	257	223	104	55	89
24	100	112	138	246	**403**	158	235	170	151	106	62	69
25	89	126	140	258	253	196	243	134	206	108	84	**131**
26	62	99	144	196	235	260	215	155	210	109	81	110
27	78	109	102	202	285	**316**	166	238	279	62	83	81
28	102	140	152	234	**324**	242	180	176	157	168	99	138
29	69		**306**	198	**290**	217	267	194	179	81	61	58
30	121		205	188	256	232	215	223	223	**149**	93	54
31	55		167		250		269	264		**274**		47

TABLE II. Continued.

1880.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	122	57	130	208	**300**	258	**274**	281	**439**	285	198	**337**
2	48	43	213	**261**	**587**	215	247	234	196	319	197	160
3	43	85	145	189	**405**	228	248	235	219	351	**613**	248
4	111	75	151	**219**	284	271	238	177	241	265	268	103
5	66	58	131	292	228	273	250	296	278	171	194	**211**
6	72	**184**	148	224	196	276	258	**340**	285	**227**	229	131
7	**217**	52	177	189	173	289	323	**347**	291	152	207	177
8	126	46	**217**	225	243	240	206	401	225	245	146	143
9	87	93	170	263	207	271	235	359	229	306	162	103
10	73	95	194	221	246	262	338	345	287	273	206	125
11	51	154	198	275	183	316	296	**527**	285	306	133	**362**
12	88	144	213	252	201	268	330	**1318**	270	296	132	168
13	81	104	**260**	312	272	233	441	**1119**	293	257	134	**349**
14	64	123	**264**	192	335	363	**494**	**712**	286	127	102	174
15	82	65	177	258	**368**	309	376	296	**550**	128	92	88
16	66	99	180	243	286	354	366	254	297	175	116	79
17	**211**	189	**491**	179	276	182	302	234	286	202	136	39
18	**168**	67	**367**	218	364	337	286	337	249	211	103	119
19	78	111	170	**241**	284	170	308	**547**	214	**242**	132	**364**
20	111	155	82	205	195	230	**394**	261	251	169	**558**	253
21	111	79	169	221	210	221	321	232	217	179	289	166
22	39	113	223	307	182	295	323	232	292	163	130	89
23	**269**	151	206	243	284	**460**	302	322	**306**	**238**	168	208
24	68	116	187	377	277	371	215	284	278	**337**	132	75
25	87	97	123	369	299	283	264	247	239	**427**	99	62
26	69	120	178	235	**410**	293	242	365	279	**315**	89	139
27	49	90	**205**	241	**434**	357	265	**527**	287	**292**	**299**	141
28	51	127	160	**414**	**558**	305	252	286	**346**	**431**	73	92
29	**251**	79	175	322	**430**	307	300	317	**447**	219	106	**233**
30	94		169	316	386	198	288	257	**365**	252	**313**	126
31	84		133		314		342	216		**633**		95

TABLE II. Continued.

1881.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	112	**483**	229	**379**	297	339	356	293	329	285	129	187
2	99	129	176	222	233	351	**482**	240	367	298	**239**	175
3	65	111	**379**	302	250	436	**756**	**396**	250	280	**263**	119
4	**176**	179	**365**	273	270	**741**	328	337	252	256	**245**	66
5	93	210	176	212	247	**471**	311	277	277	225	**292**	140
6	113	168	135	234	346	**807**	229	320	343	213	229	303
7	41	**235**	151	260	305	378	430	323	341	**384**	192	150
8	77	163	**199**	247	269	**395**	301	235	326	**315**	**256**	**394**
9	92	164	140	250	285	373	369	311	**492**	**318**	**682**	**245**
10	**214**	115	157	242	**379**	381	371	304	**405**	190	244	120
11	93	109	**233**	305	**357**	**479**	391	310	323	183	150	212
12	99	196	**334**	367	284	**479**	**608**	263	**621**	184	170	187
13	78	194	**261**	277	221	314	**643**	275	**1463**	165	113	187
14	84	239	**257**	317	285	474	373	328	262	184	99	117
15	235	**432**	231	341	262	368	460	295	308	185	181	169
16	121	**307**	257	270	327	329	343	238	267	271	171	131
17	88	121	233	240	338	332	327	259	202	**400**	199	143
18	70	129	240	259	326	398	243	229	213	279	148	95
19	94	94	227	**359**	228	240	294	203	261	240	115	190
20	88	248	**274**	**396**	261	311	220	259	240	209	181	85
21	100	**296**	**255**	**494**	283	293	267	304	271	205	110	123
22	**352**	163	223	256	310	283	323	194	234	221	79	81
23	144	213	157	313	290	369	280	263	260	216	**281**	**428**
24	**262**	175	144	375	256	336	301	221	214	250	**232**	**316**
25	**207**	140	216	339	229	317	399	197	278	253	88	**307**
26	**295**	225	173	394	318	275	359	285	266	159	191	168
27	142	**438**	312	407	290	332	314	337	229	**387**	261	138
28	80	**372**	239	444	338	317	334	327	230	193	126	163
29	87		169	208	330	369	351	349	268	206	**366**	150
30	167		245	256	264	391	379	314	291	236	**272**	138
31	**1482**		**370**		350		345	293		**319**		137

TABLE II. Continued.

1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	84	**306**	152	251	376	**496**	295	**830**	261	242	118	93
2	89	**261**	115	290	**499**	327	293	352	254	**1132**	199	141
3	155	149	192	**344**	**406**	272	388	435	257	445	157	94
4	125	100	204	**345**	**538**	291	305	**647**	**310**	299	117	182
5	112	268	186	**406**	242	359	361	**818**	**414**	292	108	108
6	108	**509**	183	302	311	464	342	372	262	**749**	140	85
7	70	**199**	173	320	323	320	305	336	209	225	192	121
8	**142**	173	159	337	355	232	318	169	298	190	192	96
9	136	**254**	**316**	337	293	312	**404**	224	261	218	237	**195**
10	68	**297**	248	310	303	409	264	303	258	339	161	100
11	147	176	134	256	320	332	248	**385**	226	225	146	183
12	227	164	154	391	503	523	284	**359**	**484**	232	**799**	163
13	118	127	172	408	361	505	241	**386**	303	156	**988**	124
14	144	137	160	**385**	**826**	305	254	330	396	231	509	118
15	119	237	167	**394**	**659**	537	310	304	340	324	433	123
16	187	186	190	**452**	406	**717**	279	317	212	285	154	**320**
17	120	178	203	**4601**	529	**582**	**623**	433	206	203	**1289**	134
18	85	**279**	209	**614**	496	418	370	318	257	192	**3079**	98
19	**565**	163	242	99	462	390	392	331	233	162	**622**	152
20	**243**	**572**	340	**1090**	418	348	298	307	225	213	**4760**	**375**
21	**224**	193	360	**908**	246	**605**	292	248	201	201	**974**	**554**
22	191	179	289	492	435	443	268	526	184	330	248	308
23	145	185	313	355	221	431	276	273	207	234	186	178
24	224	188	217	443	309	**1085**	278	288	206	373	226	224
25	136	165	198	317	311	**641**	210	322	**477**	**467**	174	118
26	124	79	216	283	531	403	226	301	**361**	155	**256**	87
27	82	117	286	374	374	**516**	217	405	**348**	179	144	70
28	143	157	281	279	**599**	443	220	366	330	**356**	156	117
29	98		273	**529**	410	273	201	436	**389**	288	110	232
30	**195**		299	387	500	247	330	298	291	244	93	192
31	120		245		406		**875**	246		176		118

TABLE II. Continued.

1883.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	124	**224**	**273**	254	241	290	**526**	364	216	211	**353**	**269**
2	78	**319**	**375**	216	**353**	**373**	382	**409**	**317**	246	**335**	**231**
3	54	**503**	191	**1213**	305	**435**	306	231	**326**	174	**444**	55
4	58	**267**	210	**440**	296	317	323	246	259	270	182	110
5	135	143	172	**347**	332	317	337	330	**352**	**576**	146	112
6	**196**	211	256	240	287	497	340	**457**	299	287	190	51
7	**169**	86	209	276	308	348	364	348	**332**	221	211	66
8	**161**	99	**340**	273	266	364	**674**	299	250	259	222	154
9	104	102	199	286	308	341	302	219	246	224	219	**290**
10	34	91	191	352	220	328	546	296	404	345	121	129
11	51	129	**236**	347	**346**	306	430	319	319	281	166	154
12	79	168	**272**	302	232	203	**411**	260	311	**388**	153	152
13	95	128	**517**	275	259	**324**	348	258	**440**	317	236	100
14	104	282	**355**	227	299	293	**502**	337	338	**425**	**238**	209
15	59	117	192	272	299	253	**544**	192	165	326	143	68
16	103	162	184	271	283	231	448	229	**566**	**568**	166	62
17	**218**	182	250	**361**	283	397	394	228	**1424**	244	163	203
18	147	109	250	320	278	**596**	**548**	344	361	325	76	155
19	128	137	267	**439**	235	**405**	448	368	255	236	160	103
20	155	231	286	**443**	373	**422**	387	433	292	256	**462**	225
21	131	191	325	412	**824**	351	300	347	302	247	127	78
22	127	**332**	**488**	349	**512**	455	349	349	280	275	**734**	83
23	129	**435**	247	342	416	**536**	309	330	249	184	**508**	112
24	124	**277**	273	**686**	385	396	**503**	320	195	297	177	60
25	**234**	**749**	186	**809**	319	415	**461**	188	**383**	144	132	**232**
26	**222**	119	**385**	**480**	324	**497**	**468**	221	277	322	117	119
27	153	222	**582**	**386**	297	**544**	371	380	193	262	**251**	77
28	**211**	**521**	**486**	355	296	**455**	224	295	346	318	180	206
29	108		**414**	287	272	**357**	236	400	231	292	108	172
30	87		322	289	260	**394**	**947**	289	268	221	157	136
31	136		237		330		**658**	185		224		101

TABLE II. Continued.

1884.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	95	167	**390**	337	440	417	321	176	174	256	209	139
2	98	**353**	**313**	416	244	**537**	388	232	207	**748**	**712**	98
3	66	160	**427**	433	226	343	**832**	211	242	**433**	**722**	87
4	64	283	204	406	279	344	**793**	202	217	283	300	72
5	83	195	330	368	226	180	401	202	271	293	245	102
6	78	119	325	367	255	302	278	221	310	317	177	70
7	106	210	294	373	283	334	345	236	309	**415**	188	93
8	**194**	271	230	397	252	219	475	**431**	239	209	200	**332**
9	124	235	270	396	284	269	403	**478**	311	211	**300**	102
10	146	188	258	356	**437**	227	475	309	**465**	289	182	107
11	**274**	253	312	543	418	257	418	300	**415**	174	**287**	**269**
12	**237**	184	271	383	**512**	297	334	274	262	209	165	79
13	**170**	196	285	383	281	303	319	308	317	237	76	76
14	119	121	305	297	272	**401**	**452**	378	**441**	**430**	158	**337**
15	**273**	127	327	**346**	242	271	**425**	291	266	**331**	177	**372**
16	158	172	345	311	279	281	281	216	229	**306**	100	**242**
17	124	158	301	414	259	340	277	211	240	256	267	90
18	88	248	256	401	204	349	230	301	**757**	175	171	140
19	**140**	188	236	**444**	224	**482**	403	237	**399**	179	171	113
20	99	151	414	**467**	192	216	361	271	190	178	150	**324**
21	146	240	**364**	407	242	293	230	**381**	170	345	151	115
22	97	230	336	288	334	**384**	213	**484**	303	232	131	205
23	139	299	**375**	333	328	**576**	256	366	324	191	208	**278**
24	155	**313**	**377**	336	296	**569**	268	246	**344**	258	226	68
25	83	**378**	223	**627**	173	374	**479**	307	269	**319**	152	107
26	**388**	240	303	**411**	277	392	369	281	290	254	102	97
27	133	222	300	356	356	340	298	228	249	170	88	89
28	155	285	401	321	313	416	246	181	192	245	**370**	**162**
29	124	**300**	**522**	333	263	386	374	241	268	**315**	157	137
30	149		259	256	285	336	182	229	263	227	123	99
31	123		323		400		240	219		177		106

TABLE II. Continued.

1885.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	122	72	333	350	331	351	497	385	264	260	264	287
2	440	68	244	267	331	394	409	**502**	372	302	125	113
3	203	106	176	247	304	360	328	348	365	247	192	145
4	107	119	186	199	368	395	290	356	**414**	239	193	100
5	91	270	188	251	255	422	445	267	331	256	216	110
6	180	203	247	325	256	352	455	273	194	351	176	**344**
7	163	87	265	259	320	342	326	531	311	269	260	**461**
8	202	152	186	**375**	288	278	363	481	265	276	275	**423**
9	267	132	204	281	314	473	240	233	267	311	118	238
10	171	**412**	309	228	300	552	354	389	375	215	**447**	89
11	136	105	**339**	226	**469**	318	306	400	393	240	**470**	110
12	107	274	187	318	415	469	307	361	343	317	**386**	77
13	143	**369**	269	403	**634**	477	262	213	374	305	157	141
14	202	139	219	301	**600**	477	297	274	425	254	77	129
15	201	82	**1092**	**371**	274	383	357	325	332	323	210	71
16	167	124	**964**	320	410	423	334	429	**690**	309	237	66
17	193	124	**337**	318	353	353	**545**	223	292	204	198	168
18	153	193	193	353	389	334	307	301	254	149	478	143
19	119	171	162	265	393	406	318	391	253	191	268	128
20	124	139	262	285	411	**481**	273	386	262	206	146	136
21	146	229	332	315	370	326	339	336	267	215	95	205
22	**543**	288	182	262	418	421	280	312	266	363	140	135
23	349	104	293	352	338	317	266	246	382	305	163	114
24	217	133	247	384	378	372	336	200	258	218	165	78
25	124	157	229	343	**884**	**851**	**388**	299	330	273	125	177
26	141	230	267	348	**1032**	**875**	269	283	296	169	210	126
27	221	349	254	498	**602**	403	329	337	**553**	224	145	125
28	161	360	289	499	**1145**	296	380	**478**	257	107	162	**217**
29	119		252	313	459	309	397	**611**	195	210	211	118
30	**553**		347	320	437	398	275	413	346	266	204	231
31	77		380		343		433	383		238		210

TABLE II. Continued.

1886.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	390	110	361	**668**	317	312	457	308	308	207	186	300
2	387	140	328	452	391	221	380	283	317	220	**393**	287
3	218	226	344	260	302	301	337	296	391	145	**521**	274
4	277	161	167	326	224	391	388	262	358	193	**628**	220
5	141	**342**	222	348	263	341	371	286	321	286	**442**	184
6	200	120	239	306	280	396	313	367	240	**555**	**432**	243
7	258	201	**251**	319	283	401	382	413	295	**564**	307	182
8	275	217	235	284	545	381	348	240	235	**731**	224	136
9	**1054**	146	303	267	**1083**	250	468	281	258	**646**	155	94
10	**705**	**358**	356	282	**576**	311	379	309	**610**	**558**	141	173
11	201	**448**	282	351	**510**	326	349	303	**551**	372	151	190
12	119	136	244	251	**465**	485	395	**473**	**554**	415	**323**	137
13	90	108	315	**525**	340	413	244	322	**528**	215	**307**	146
14	127	138	242	**571**	269	347	356	**523**	**472**	265	125	174
15	**430**	196	243	**693**	400	277	346	**465**	337	263	264	169
16	194	307	218	370	275	322	430	401	145	210	214	218
17	108	221	253	333	271	425	286	472	288	275	273	187
18	195	196	254	303	**520**	319	358	398	249	309	218	110
19	319	**291**	**324**	**424**	262	290	513	278	260	283	391	214
20	173	160	**484**	333	312	276	534	224	270	290	305	91
21	188	197	224	430	401	347	383	249	**415**	272	191	155
22	**287**	**244**	227	321	369	**535**	461	210	222	177	226	167
23	95	125	**375**	361	375	385	559	325	188	212	**266**	231
24	131	200	**291**	372	319	320	298	**531**	206	242	242	122
25	181	252	285	463	319	424	233	213	287	302	199	132
26	208	224	192	276	451	385	245	253	293	273	167	215
27	190	220	**319**	340	478	366	**440**	228	277	214	196	285
28	228	257	296	342	358	341	**1348**	244	361	241	145	152
29	**317**		345	416	268	426	448	209	297	204	264	361
30	**396**		**1337**	395	282	**755**	328	269	283	152	**329**	198
31	135		**1464**		285		255	286		199		107

TABLE II. Continued.

1887.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	63	318	175	302	214	**397**	246	377	**388**	187	155	87
2	58	123	144	364	352	280	351	**776**	281	170	108	71
3	150	166	168	288	**398**	233	269	**469**	318	105	184	92
4	231	298	178	221	**400**	313	405	351	217	170	84	146
5	105	152	250	**444**	322	**414**	**470**	405	247	159	81	138
6	93	123	**295**	332	302	235	**439**	398	275	174	129	207
7	181	203	162	**597**	261	298	**591**	424	330	263	112	237
8	170	109	239	369	213	355	403	332	303	169	156	106
9	112	271	**450**	346	185	399	326	234	305	131	174	80
10	168	151	175	225	238	**471**	374	219	246	144	**397**	119
11	181	215	162	252	298	354	371	246	285	146	111	159
12	131	333	166	226	**464**	**371**	363	246	277	**384**	60	148
13	178	**431**	204	210	301	**346**	306	329	229	260	150	320
14	342	**415**	178	407	362	224	280	285	351	229	244	144
15	351	214	252	360	324	194	327	361	286	158	146	108
16	296	231	287	256	315	184	193	245	229	127	231	**423**
17	198	204	143	306	257	258	251	250	266	211	278	**526**
18	202	113	146	328	382	281	343	227	239	174	105	190
19	162	130	285	289	287	396	338	246	199	130	222	**287**
20	163	332	283	299	277	277	**351**	322	251	194	279	138
21	110	338	272	292	331	372	233	367	273	221	**724**	279
22	162	221	223	**444**	246	**448**	183	313	339	**391**	**432**	**467**
23	229	235	233	315	333	294	258	282	169	**274**	279	109
24	260	169	**381**	328	**367**	255	232	226	305	212	172	100
25	208	174	190	369	**476**	262	243	352	**524**	158	98	213
26	215	152	213	257	304	236	273	397	**1012**	**376**	46	**248**
27	125	240	219	317	338	278	288	315	**453**	**311**	165	201
28	94	152	171	289	342	258	297	348	**472**	144	144	180
29	143		198	**431**	244	300	**377**	**482**	200	181	248	126
30	130		245	226	290	301	328	390	285	**341**	164	147
31	147		285		278		**375**	370		131		94

TABLE II. Continued.

1888.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	138	61	105	212	408	208	**470**	270	284	190	**264**	74
2	219	56	145	277	238	202	411	315	281	223	126	132
3	283	155	164	**345**	234	**526**	293	**441**	224	211	95	163
4	233	99	122	**341**	170	**588**	328	**438**	244	242	216	74
5	240	214	240	**377**	199	384	257	226	249	319	**258**	160
6	220	55	206	257	221	335	336	259	303	189	119	195
7	279	114	418	167	**516**	307	359	217	357	209	198	82
8	**741**	165	259	204	**528**	231	339	274	317	187	**228**	**392**
9	126	356	257	189	334	140	316	280	253	236	127	160
10	90	170	230	252	326	288	272	322	269	211	94	120
11	172	207	165	**390**	239	328	273	328	259	159	314	55
12	219	115	154	**574**	373	268	334	314	347	344	73	81
13	**661**	81	178	**503**	333	256	370	192	462	292	164	169
14	**371**	161	186	350	284	301	320	194	241	181	209	229
15	279	121	246	383	334	362	296	248	**328**	169	242	259
16	128	156	**538**	281	287	267	247	**581**	254	164	**275**	167
17	139	162	**543**	135	228	206	335	**437**	194	174	**496**	102
18	215	155	**514**	212	266	235	331	269	250	247	**276**	168
19	143	214	358	239	228	298	241	**370**	311	292	163	114
20	163	215	254	258	461	176	229	264	240	**431**	95	149
21	190	297	170	220	**1044**	197	255	248	167	**402**	76	158
22	131	205	176	204	195	**410**	324	235	207	228	96	74
23	**542**	113	131	282	177	387	308	202	230	285	38	125
24	**481**	162	187	300	281	382	243	242	282	283	116	**335**
25	217	156	329	234	183	303	288	247	348	232	152	161
26	161	139	223	212	268	296	222	228	254	139	104	184
27	198	105	306	249	355	286	237	218	422	160	170	178
28	128	115	347	382	267	241	329	207	262	134	160	81
29	178	203	216	374	360	237	341	202	239	212	84	73
30	135		233	342	266	362	299	266	140	209	104	139
31	166		185		283		279	336		243		197

TABLE III. Declination. Aggregate values of the twenty-four departures from the daily mean value for every day. Unity = 1 minute of arc.

1873.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	**112.6**	65.3	80.2	79.7	80.1	**146.7**	88.8	31.4	82.9	61.7	**97.4**	24.0
2	24.3	**116.7**	**115.7**	**117.3**	69.6	76.9	65.6	11.9	69.1	63.5	**83.5**	25.7
3	**102.3**	54.4	51.9	**141.4**	104.4	71.2	66.3	47.9	84.6	52.5	59.7	18.0
4	65.4	67.9	109.1	66.9	76.6	85.1	71.8	76.9	63.7	54.0	27.4	28.7
5	**145.1**	**81.6**	81.8	76.3	94.6	65.5	88.2	99.5	98.1	81.7	41.2	22.6
6	**171.6**	28.7	42.9	103.9	107.7	71.7	66.9	87.4	77.4	54.1	24.8	27.3
7	**155.1**	67.6	61.0	129.0	82.9	64.3	58.8	29.2	92.3	51.1	53.2	40.6
8	**132.8**	74.7	**103.8**	84.1	63.4	56.5	50.2	14.5	73.8	42.2	45.9	53.3
9	52.6	**148.2**	**212.5**	116.1	61.1	64.1	91.0	13.8	103.2	97.8	36.6	**141.3**
10	70.2	63.0	**153.9**	104.2	48.8	70.6	**118.4**	15.6	91.1	67.0	31.9	**71.9**
11	38.1	56.6	74.0	92.7	65.7	72.1	**115.0**	68.7	51.2	80.6	27.0	28.8
12	**109.1**	57.4	56.5	92.3	76.6	**126.4**	**114.8**	78.5	48.9	57.6	**85.2**	56.5
13	46.7	52.5	82.6	95.7	107.5	69.4	**126.3**	81.2	91.1	42.7	**75.4**	35.4
14	**58.6**	60.9	58.7	74.6	92.6	103.5	99.1	90.5	91.9	32.2	**85.5**	44.7
15	54.7	71.0	91.7	81.6	**112.6**	69.8	76.9	81.0	88.5	99.6	30.3	**108.2**
16	44.1	46.3	88.0	67.1	**107.3**	80.8	**120.3**	84.4	58.0	83.6	52.4	37.1
17	30.7	36.4	71.1	71.2	78.7	71.6	73.1	95.4	51.3	48.8	22.8	32.9
18	**81.6**	37.4	52.4	**138.0**	72.2	78.1	66.7	106.1	50.8	73.8	13.6	33.7
19	**105.4**	86.5	56.2	**156.7**	99.6	**112.9**	60.8	62.4	78.7	75.3	47.8	21.5
20	**71.2**	66.3	50.8	**120.9**	100.8	**132.7**	107.8	72.6	91.5	49.1	55.3	13.7
21	**79.6**	**108.0**	78.5	82.6	103.1	91.4	**125.3**	69.4	86.4	**121.6**	43.2	26.7
22	21.3	**84.6**	**166.6**	79.2	86.3	63.7	86.4	73.3	81.1	52.1	61.7	29.8
23	37.8	**86.6**	**124.8**	91.2	**130.7**	71.9	93.7	94.4	75.8	63.0	59.0	**50.3**
24	**84.0**	63.9	90.3	71.8	**135.5**	105.5	86.9	66.3	84.8	41.8	22.9	13.8
25	**141.2**	73.9	**96.0**	**123.9**	100.1	**129.8**	88.0	73.1	76.2	41.7	**101.6**	19.0
26	**74.6**	51.3	**103.2**	94.0	97.4	**134.5**	111.7	93.0	78.4	37.8	65.1	51.5
27	**99.5**	72.4	80.9	110.9	85.2	91.2	104.0	69.7	53.1	31.6	55.5	27.0
28	53.9	62.2	**106.2**	102.8	84.3	**106.0**	65.6	57.8	75.8	73.8	17.4	18.0
29	**76.3**		96.7	93.8	**115.7**	102.3	102.8	84.1	72.0	36.8	39.6	**61.4**
30	50.4		101.4	119.2	80.7	78.2	90.8	101.2	88.8	59.2	36.3	44.9
31	42.2		75.9		94.4		88.9	120.9		45.7		32.0

TABLE III. Continued.

1874.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	45.2	75.3	45.3	**92.4**	68.1	83.7	99.7	54.6	75.8	56.1	39.0	13.1
2	54.9	34.3	37.1	**191.8**	72.4	89.1	91.9	88.1	65.4	43.7	31.3	30.0
3	23.9	29.3	46.1	82.5	72.6	**102.3**	93.5	64.2	61.3	79.4	37.1	**75.1**
4	40.2	**257.2**	48.7	70.4	**110.3**	97.5	86.6	78.2	68.2	**273.6**	32.2	56.5
5	**72.5**	**108.3**	47.6	76.3	85.4	95.6	86.6	73.5	72.7	**115.4**	38.2	28.0
9	40.5	**120.2**	65.7	**97.2**	79.1	100.6	62.6	47.9	64.0	50.5	**102.5**	24.4
7	27.8	39.7	**107.9**	**152.2**	66.9	**122.1**	77.6	51.3	94.5	63.7	**63.6**	27.3
8	33.6	28.1	**254.6**	**115.0**	69.3	88.0	76.1	93.5	78.4	40.9	48.9	24.4
9	27.3	31.8	40.1	**90.0**	69.3	80.8	71.1	87.4	69.7	43.9	48.2	45.7
10	16.7	**92.2**	47.5	41.4	64.0	81.0	88.8	70.6	**92.8**	38.7	45.2	25.9
11	24.5	49.6	40.6	45.7	51.6	71.4	74.9	**101.6**	**102.6**	31.8	55.0	19.1
12	74.0	35.9	53.9	50.4	68.1	83.3	75.9	66.4	**117.2**	64.5	**63.2**	14.9
13	37.8	42.4	**67.4**	**155.4**	80.4	73.9	86.4	65.9	**113.5**	74.7	50.3	20.5
14	19.4	30.2	55.8	72.4	76.7	75.9	117.3	63.9	64.1	**110.8**	57.3	9.3
15	72.6	40.8	57.9	53.7	83.2	75.8	66.9	64.4	64.9	47.0	22.6	34.3
16	**125.3**	27.9	61.8	61.4	77.0	67.5	77.8	74.5	49.8	75.2	20.4	62.8
17	**113.5**	45.5	53.8	61.5	67.6	62.5	77.8	60.9	66.2	55.3	32.9	18.3
18	**160.5**	63.3	68.9	71.0	73.7	76.5	89.2	75.5	**86.2**	37.5	26.3	13.7
19	41.3	41.8	**97.3**	60.0	78.1	75.5	67.3	100.1	45.7	42.8	26.9	23.0
20	39.1	67.3	76.2	66.3	64.9	66.3	76.5	57.8	50.9	33.9	40.3	14.9
21	22.4	62.1	61.3	78.1	72.6	51.8	57.4	55.4	56.8	28.5	**71.0**	83.1
22	29.1	67.6	66.2	51.0	74.4	61.9	57.7	45.8	70.1	41.4	27.7	74.0
23	28.1	58.5	60.8	55.8	63.7	63.8	71.8	63.1	60.6	58.0	46.3	51.6
24	64.1	29.2	48.2	49.9	52.9	62.8	88.3	96.0	47.3	21.1	**91.8**	47.8
25	56.8	27.5	48.9	70.8	50.3	66.7	95.6	62.1	48.2	27.7	34.0	20.4
26	40.4	39.9	78.1	40.6	**120.4**	55.0	51.6	59.9	42.3	27.0	31.8	15.6
27	81.6	55.2	72.1	48.1	**103.4**	**98.8**	58.1	66.3	47.2	**103.0**	49.3	20.4
28	**150.8**	41.6	82.7	**92.6**	64.6	77.4	85.3	59.7	61.2	32.1	18.3	9.6
29	45.6		66.6	**85.6**	71.5	84.3	84.2	54.5	**115.8**	36.9	33.7	28.1
30	27.4		48.9	79.2	71.9	69.1	91.0	65.1	61.6	32.6	50.8	18.5
31	36.5		53.2		74.7		**119.9**	**102.9**		20.8		8.5

TABLE III. Continued.

1875.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	28.7	21.3	54.6	45.7	55.6	83.4	62.9	65.6	66.9	47.3	33.3	35.2
2	44.6	38.3	28.5	46.4	47.7	83.5	69.4	61.7	62.5	85.1	**72.3**	22.3
3	30.5	23.7	**67.7**	48.5	70.9	87.3	76.4	70.9	70.2	65.8	33.8	25.3
4	22.5	12.5	30.8	53.1	73.2	94.2	76.2	56.3	51.2	44.1	40.7	15.8
5	14.5	13.9	23.2	59.3	**94.8**	81.8	87.8	57.6	40.1	**104.5**	25.3	10.4
6	17.6	12.1	30.1	48.5	**131.1**	69.0	61.9	66.3	42.0	49.0	24.7	**50.2**
7	66.0	28.0	**87.3**	**134.3**	**113.3**	66.0	64.3	61.0	42.7	**77.5**	21.6	31.5
8	44.7	23.8	**75.2**	**95.4**	64.1	79.8	64.8	88.7	58.4	32.8	38.0	13.8
9	17.9	27.5	23.7	64.1	90.0	92.5	51.2	60.0	49.2	45.1	20.2	13.1
10	21.4	44.1	35.0	59.1	**117.8**	82.8	75.3	61.1	57.7	40.2	**64.2**	18.5
11	25.6	68.8	60.1	64.8	92.1	54.9	48.7	**90.8**	**73.3**	41.8	23.6	24.8
12	12.9	52.5	**72.7**	58.5	48.6	51.7	80.2	62.1	39.8	55.9	31.4	9.8
13	14.3	65.2	58.4	90.6	56.1	82.1	72.1	48.3	48.5	65.1	**99.7**	20.4
14	25.1	51.3	35.9	78.1	69.8	77.1	**79.9**	62.0	69.5	21.8	44.5	44.5
15	15.1	24.4	54.0	53.1	51.0	77.8	57.8	59.5	60.1	42.7	15.2	14.8
16	39.8	17.3	35.6	75.3	76.8	63.3	66.3	38.4	**100.3**	53.2	12.5	25.9
17	45.1	25.1	**59.5**	74.1	57.5	74.8	66.2	51.6	57.9	36.7	12.0	64.7
18	49.9	11.8	43.3	70.3	74.5	53.2	56.3	44.4	58.6	37.8	16.6	31.7
19	26.1	19.9	**102.9**	67.8	95.4	55.6	43.8	86.7	52.5	33.6	20.5	23.9
20	13.8	12.8	**86.9**	67.1	82.3	59.7	46.8	47.1	57.2	23.3	28.6	21.3
21	13.2	54.0	**72.4**	63.9	58.0	69.1	52.6	57.5	67.4	28.5	54.9	21.0
22	52.5	56.7	40.6	62.4	113.7	58.7	49.8	66.2	44.4	30.0	50.1	10.9
23	24.0	43.9	52.3	50.2	66.9	57.0	49.2	74.9	60.5	25.0	43.2	11.5
24	27.8	19.1	42.4	**81.2**	61.1	68.8	57.0	66.6	39.9	31.5	25.7	20.6
25	35.9	**63.2**	44.3	53.9	72.4	65.1	75.5	62.0	30.5	47.6	20.5	32.8
26	24.9	**76.5**	53.1	76.4	65.4	60.4	64.5	58.8	31.2	48.0	14.3	**78.3**
27	16.0	**138.1**	49.8	**85.3**	69.0	75.9	66.4	65.7	40.2	43.3	14.2	21.0
28	55.4	38.5	65.2	55.3	56.9	81.4	78.2	53.1	34.3	30.6	16.4	13.2
29	17.5		41.7	60.4	54.9	89.2	91.2	57.4	50.3	20.1	25.7	11.7
30	32.3		44.9	53.3	73.8	**124.3**	91.2	53.5	45.8	20.1	40.5	15.6
31	38.6		53.2		63.3		70.2	56.2		25.1		35.1

TABLE III. Continued.

1876.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October	November.	December.
1	49.7	17.0	51.1	48.3	57.1	69.4	46.6	70.0	50.5	30.4	19.6	46.8
2	26.4	14.6	24.8	45.8	46.7	78.4	58.3	64.2	56.0	33.2	19.2	22.5
3	16.7	**19.3**	21.0	46.0	53.3	59.9	50.6	74.8	62.7	55.7	38.1	25.3
4	22.0	22.3	51.7	53.5	42.0	83.7	57.9	70.1	51.4	55.6	30.5	17.3
5	**43.1**	**63.1**	51.5	61.8	64.7	88.4	111.4	60.0	58.0	41.9	21.1	12.1
6	31.3	23.6	35.4	60.2	57.8	58.6	80.4	57.5	48.3	**139.0**	19.9	13.5
7	17.4	14.2	**43.0**	68.3	56.2	60.5	69.8	49.8	47.7	54.4	25.8	12.8
8	30.0	18.3	29.0	73.8	67.6	53.6	82.1	63.2	32.0	27.8	33.6	12.9
9	15.8	12.7	20.4	45.8	62.9	69.4	64.2	78.6	58.5	35.5	21.5	11.2
10	25.3	78.1	50.6	53.8	58.5	84.5	72.4	42.5	53.4	32.9	**85.3**	**110.8**
11	12.9	13.1	40.6	45.8	57.4	92.9	67.7	60.6	44.9	62.2	**64.9**	50.1
12	10.8	23.3	**56.1**	44.2	60.9	54.7	61.1	58.7	32.8	34.3	37.0	52.2
13	9.9	37.4	**54.5**	63.8	67.8	65.4	69.1	75.2	**84.9**	30.1	**70.6**	20.7
14	**80.7**	**39.4**	30.7	54.1	69.2	62.8	63.7	48.5	63.7	25.6	12.4	16.3
15	**77.6**	29.1	28.4	52.7	57.4	74.5	59.9	63.4	47.5	31.9	50.5	15.8
16	26.5	23.8	41.5	62.5	52.4	63.1	69.3	71.1	33.6	30.2	33.2	15.1
17	22.8	28.2	34.6	69.6	66.4	79.6	63.4	37.9	31.4	30.1	14.1	48.9
18	20.6	36.0	29.5	50.7	72.4	77.5	63.4	55.6	35.7	39.4	33.0	56.3
19	20.1	**166.0**	40.5	77.0	49.1	65.0	71.2	60.2	44.9	24.9	33.4	31.0
20	21.9	**175.8**	34.1	61.7	75.3	87.2	68.5	72.3	39.5	33.6	45.0	14.9
21	20.8	17.6	44.1	37.4	57.6	110.8	63.9	64.5	45.0	29.6	21.9	30.7
22	64.0	29.0	50.9	50.1	64.4	67.9	71.3	57.4	58.7	65.2	28.5	**84.8**
23	102.7	18.9	50.9	58.3	66.4	64.6	72.8	72.4	**83.1**	**124.2**	16.4	55.6
24	19.7	20.0	38.6	56.0	73.5	57.0	65.0	86.2	46.8	**68.6**	15.5	26.5
25	39.4	65.7	**158.3**	51.8	**109.8**	63.4	71.8	65.4	65.4	**64.2**	21.3	26.6
26	35.5	48.0	**100.6**	54.4	69.4	84.0	77.1	68.8	56.4	29.7	52.2	19.9
27	19.3	42.3	**69.2**	52.3	71.3	74.7	72.2	61.1	**89.5**	18.4	39.1	11.9
28	24.0	16.2	66.1	59.1	56.7	66.2	51.4	63.3	41.9	19.1	22.0	7.4
29	21.3	18.3	**83.3**	53.6	69.3	47.3	66.5	75.8	40.0	29.2	14.4	13.2
30	23.9		**78.7**	55.2	60.4	45.2	70.1	77.2	39.9	20.1	10.5	17.8
31	29.8		**79.5**		62.7		56.2	43.0		**47.3**		15.9

TABLE III. Continued.

1877.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	11.7	15.8	41.0	42.2	65.4	66.3	64.9	**67.8**	58.4	**73.6**	17.3	13.9
2	12.9	41.3	**64.2**	38.1	**104.5**	52.0	82.4	45.1	50.3	26.3	26.7	23.7
3	14.6	**53.9**	40.5	47.6	**97.5**	61.9	56.6	54.4	39.7	31.1	**102.9**	32.6
4	15.0	25.4	38.7	45.7	49.3	63.6	78.1	84.8	37.0	51.6	34.5	**82.6**
5	11.6	20.2	32.2	71.9	39.3	65.4	56.2	60.9	48.6	33.9	51.7	**64.5**
6	**138.2**	29.4	25.6	54.3	51.1	81.1	73.2	52.8	46.1	23.3	33.7	46.2
7	56.4	16.4	24.1	51.3	56.1	69.0	61.8	57.3	45.5	27.0	21.6	22.6
8	35.3	23.1	23.6	71.7	44.0	61.1	**96.2**	56.1	42.8	38.5	**62.4**	17.9
9	34.7	17.9	30.9	68.7	48.7	54.3	60.8	71.4	45.4	30.3	35.9	6.0
10	21.0	32.9	**86.4**	50.7	64.2	61.2	49.7	56.4	54.2	34.4	36.5	18.8
11	18.0	**52.7**	52.4	41.1	**129.8**	65.9	54.4	70 0	50.5	30.5	17.1	17.2
12	16.6	**42.2**	37.4	47.6	56.3	75.6	65.3	62 3	45.8	**59.0**	18.9	**69.8**
13	16.7	41.2	44.2	48.7	73.2	58.3	68.5	44.1	37.4	**51.2**	15.6	24.8
14	30.3	32.5	44.4	47.0	59.9	**69.0**	77.7	56.8	40.9	25.3	13.4	17.9
15	**62.3**	**46.9**	34.4	**96.8**	58.4	67.1	82.0	50.9	**75.7**	29.2	20.1	12.5
16	48.1	16.9	29.9	55.7	62.4	65.0	64.3	56.9	61.4	25.7	14.3	29.8
17	20.5	40.2	32.3	53.4	61.8	63.9	58.9	61.6	29.4	24.7	25.4	21.2
18	20.7	17.4	41.1	45.0	52 8	43.8	53.8	**101.0**	58.2	40.4	21.0	14.9
19	46.8	27.6	44.0	55.9	49.8	55.5	49.4	58.1	**153.3**	26.0	17.1	13.8
20	24.1	44.7	52.6	49.7	49.0	55.2	67.2	65.8	36.6	23.4	**92.7**	11.9
21	38.4	41.3	45.3	46.2	**80.2**	60.4	**114.8**	61.1	43.7	31.8	23.0	13.4
22	12.9	39.0	44.6	44.5	55.5	77.2	78.0	41.5	37.0	36.8	12.9	17.1
23	55.4	33.4	59.4	**70.4**	66.3	91.1	59.2	51.8	38.7	39 8	19.3	11.9
24	34.8	47.4	72 0	51.0	54.2	87.3	72.7	57.4	37.6	43.7	**66.3**	21.4
25	36.4	22.3	51.4	52.9	52.5	75.2	60.3	52.8	37.6	**48.8**	25.3	17.7
26	37.8	22.5	50.2	52.8	58.4	76.0	67.3	52.7	**51.6**	22.0	12.8	15.0
27	47.4	16.4	28.5	41.5	51.7	68.1	51.4	49.7	36.8	31.6	16.8	8.8
28	24.0	22.6	47.4	55.1	69.2	87.7	62.4	79.9	36.4	31.9	12.7	22.8
29	23.8		59.9	59.4	**122.1**	67.2	64.6	**94.0**	51.2	33.2	11.2	23.6
30	16.2		63.2	44.5	63.8	71.2	79.1	39.5	33.4	21.1	29.4	13.2
31	21.3		56.3		55.4		105.9	60.1		21.8		20.6

TABLE III. Continued.

1878.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	32.6	27.0	30.1	42.8	64.0	64.7	56.9	51.5	58.0	**43.5**	19.6	**110.2**
2	19.5	9.8	21.9	**97.5**	48.4	**101.2**	73.8	59.1	43.5	32.4	18.8	**75.3**
3	11.2	18.3	21.1	**115.7**	61.2	**241.8**	69.6	75.7	45.3	37.5	17.5	30.0
4	15.0	18.2	31.1	34.8	55.5	67.5	73.8	62.4	**64.0**	27.1	**51.1**	15.2
5	24.4	**47.9**	33.9	56.6	63.2	62.7	51.2	43.5	50.3	23.2	31.1	22.7
6	15.9	24.2	22.7	56.5	51.7	59.1	79.9	64.2	64.0	31.9	19.0	33.3
7	13.1	**65.6**	31.8	59.7	62.0	80.1	82.8	58.6	47.0	32.8	25.4	27.0
8	17.8	22.6	29.0	45.4	56.1	61.2	65.4	**88.2**	34.3	20.3	**30.3**	16.2
9	14.9	20.3	46.8	44.9	39.9	62.9	53.4	56.0	33.2	32.5	17.5	15.2
40	37.9	24.6	26.3	35.0	52.2	**76.6**	62.5	45.7	47.7	38.7	22.7	13.6
11	41.4	44.5	**48.8**	53.3	44.9	**73.4**	59.9	54.8	42.6	35.0	21.6	14.7
12	17.0	31.9	21.9	42.2	51.2	54.9	58.6	47.2	53.4	24.6	16.2	**32.0**
13	14.1	13.0	34.8	47.3	54.2	63.2	63.7	59.1	53.2	42.5	19.6	**33.9**
14	17.9	31.1	51.1	37.1	**135.7**	62.7	67.0	55.4	48.8	26.2	**96.4**	28.2
15	15.4	44.6	35.7	50.9	**90.5**	59.7	73.0	58.3	33.5	32.0	**32.9**	17.8
16	15.1	21.5	24.4	46.8	62.9	74.6	81.5	42.8	41.8	30.1	**30.4**	17.1
17	13.4	32.4	41.3	**74.8**	60 3	73.4	70.4	49.9	43.3	23.6	22.3	26.8
18	8.3	34.6	27.8	62.0	58.5	69.3	75.3	47.1	41.1	**51.3**	15.7	31.0
19	33.0	45.0	29.3	68.4	59.9	47.5	67.0	51.4	33.6	**43.0**	**38.6**	24.2
20	16.2	17.1	60.3	54.8	51.6	62.7	52.7	56.6	31.8	36.9	27.6	28.8
21	11.3	15.9	41.6	85.1	55.7	77.1	64.5	40.5	34.9	28.6	18.5	12.5
22	19.3	22.7	39.7	46.2	56.0	65.7	39.4	58.9	45.8	35.3	25.4	7.2
23	13.7	29.6	40.4	38.9	**77.6**	65.4	62.8	63.1	57.9	**38.8**	15.9	16.8
24	**127.5**	31.9	56.3	44.3	**79.1**	51.7	44.8	60.2	37.4	20.2	16.5	**27.0**
25	27.0	24.7	56.8	52.5	49.5	56.5	52.2	50.6	33.9	19.7	13.7	**36.6**
26	24.8	39.9	63.6	44.6	51.9	9.3	44.8	65.4	**83.3**	27.4	13.4	17.6
27	15.4	26.8	48.7	39.4	42.1	12.4	55.2	63.1	60.5	24.8	17.0	19.1
28	17.5	35.7	38.1	63.4	49.5	12.8	52.4	44.6	43.2	37.8	18.3	20.2
29	34.0		50.4	61.4	63.8	58.6	47.8	48.4	**73.0**	20.3	38.3	43.3
30	14.5		38.4	63.8	62.7	70.3	44.2	62.8	59.1	25.7	21.4	28.0
31	11.1		32.1		53.9		46.1	**103.1**		19.1		**107.8**

TABLE III. Continued.

1879.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	**76.7**	18.7	25.3	33.5	40.5	61.9	53.7	81.0	**92.8**	29.4	22.6	**42.1**
2	27.0	14.9	20.9	43.9	57.9	49.4	52.9	**88.0**	51.1	41.0	17.0	19.0
3	12.8	13.8	**34.3**	44.0	52.0	66.7	47.9	65.5	51.6	39.7	37.6	15.2
4	**40.0**	14.5	22.1	42.7	61.8	60.4	65.0	74.0	54.0	68.8	19.6	11.8
5	15.7	21.1	38.8	35.0	50.5	76.2	**119.6**	63.0	55.1	41.9	23.7	15.6
6	22.3	15.2	32.4	37.8	52.2	69.6	**88.3**	59.0	45.1	38.8	31.0	24.7
7	10.8	17.1	**55.7**	49.9	46.4	59.8	62.1	53.5	72.8	**51.5**	26.4	51.3
8	16.8	11.0	38.6	50.2	60.2	82.1	74.4	52.9	46.6	37.0	26.2	**88.9**
19	15.0	22.4	**60.5**	56.8	58.4	76.8	66.3	56.3	52.0	25.2	14.8	**37.4**
10	14.8	23.8	49.1	42.3	60.4	72.5	78.9	55.7	54.4	37.2	19.4	**51.8**
11	12.4	19.1	33.9	44.5	55.3	61.4	59.4	57.3	**94.2**	25.8	**48.2**	**79.6**
12	10.1	22.4	39.0	44.9	87.3	53.2	52.5	45.2	70.0	25.7	**36.1**	25.7
13	16.3	35.2	69.1	**65.0**	75.7	65.6	70.4	58.3	37.5	28.4	**39.8**	13.1
14	22.2	24.3	30.3	45.7	67.8	63.8	70.1	57.9	40.1	50.3	23.5	13.5
15	24.8	38.2	51.5	36.5	56.8	54.3	47.1	50.2	33.3	46.7	17.0	14.0
16	**34.8**	20.2	39.0	47.3	47.5	67.9	56.0	62.9	31.0	37.7	17.4	11.5
17	18.8	14.1	24.1	47.2	60.4	**82.6**	55.9	57.8	29.4	47.9	14.5	**52.1**
18	14.9	25.4	36.2	52.7	57.4	70.1	67.3	55.1	35.3	33.6	22.5	21.4
19	12.6	17.9	34.4	71.9	65.2	53.3	63.6	49.7	45.0	29.4	**40.9**	15.1
20	**69.4**	21.8	54.6	**84.0**	60.8	59.9	52.6	53.4	69.6	27.7	20.5	12.3
21	20.2	43.5	42.2	30.8	49.7	61.8	61.1	64.2	47.6	38.2	23.2	11.0
22	11.7	28.0	53.3	57.0	66.6	67.8	70.1	67.5	46.1	27.6	29.5	**81.9**
23	20.0	22.5	**58.1**	54.5	59.8	75.3	80.6	53.9	36.6	28.3	15.5	17.8
24	32.1	42.2	36.6	53.0	**85.6**	66.4	65.9	51.7	38.2	39.3	23.7	10.9
25	22.7	31.1	41.8	53.8	60.9	63.7	48.5	51.6	40.0	38.5	32.8	38.2
26	15.6	28.8	44.7	41.6	57.9	**91.2**	63.1	44.5	50.8	23.6	20.6	**56.6**
27	41.7	36.3	38.3	56.3	56.3	61.5	52.5	56.9	45.8	13.7	18.5	36.2
28	36.0	19.2	43.9	42.6	56.7	56.8	53.7	51.7	36.9	21.2	29.4	40.4
29	23.8		**87.4**	46.6	**85.0**	63.5	56.2	62.9	46.2	17.0	20.8	22.8
30	27.2		44.7	50.6	67.0	68.0	59.6	77.1	40.3	24.1	17.8	11.3
31	23.6		45.8		69.6		58.4	54.5		33.4		16.0

TABLE III. Continued.

1880.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	18.4	21.7	40.3	45.0	70.6	65.8	66.5	46.2	**109.8**	44.8	30.7	**66.3**
2	13.5	24.9	51.5	50.7	**153.6**	54.0	**67.3**	62.4	59.6	54.1	26.9	36.8
3	12.6	17.0	33.2	43.4	59.6	66.0	45.4	47.4	55.0	42.9	**170.2**	73.7
4	21.7	21.0	25.4	54.9	46.8	65.0	55.2	56.6	58.6	49.4	57.4	32.8
5	16.8	20.6	36.9	52.3	43.2	69.0	61.9	54.8	59.0	42.7	30.8	**53.2**
6	13.6	**29.7**	30.6	46.8	48.9	59.4	48.0	**103.7**	66.9	47.7	27.6	41.2
7	**54.0**	**36.0**	**73.7**	44.3	39.4	66.1	50.6	71.3	60.4	48.5	29.1	**84.1**
8	36.9	26.8	27.7	45.2	57.2	55.2	53.0	**91.2**	56.7	51.1	46.0	35.4
9	19.3	26.7	32.4	46.0	55.9	57.2	59.3	70.5	49.7	33.8	43.8	22.2
10	20.3	17.7	36.1	47.8	51.8	61.2	76.8	90.4	55.0	44.1	**53.6**	49.9
11	11.8	27.9	33.9	53.8	47.2	72.2	76.0	**142.7**	52.9	49.5	29.9	**58.1**
12	16.8	54.7	47.1	50.2	49.5	74.6	78.7	**155.9**	58.1	60.9	36.4	27.4
13	23.0	26.4	56.2	52.0	64.9	82.8	**105.3**	**122.0**	53.3	49.4	31.4	47.2
14	14.5	19.2	**76.8**	41.1	68.3	73.6	**84.7**	**108.2**	63.6	25.8	19.6	**68.9**
15	24.9	23.3	30.1	66.1	**99.2**	100.0	59.4	59.0	**83.5**	57.7	20.7	20.2
16	23.0	26.5	32.0	76.3	61.1	93.8	54.4	**72.9**	68.0	40.8	15.6	20.7
17	25.0	31.1	**155.4**	41.3	80.2	75.4	68.8	43.5	41.0	42.9	22.0	23.0
18	31.7	21.0	62.3	69.5	64.8	64.1	73.3	86.8	49.0	38.6	33.0	28.8
19	23.9	13.7	**81.9**	**101.8**	61.6	62.5	93.6	81.7	44.4	35.8	25.2	**96.5**
20	33.7	35.6	32.5	43.0	77.2	78.1	**95.4**	75.7	57.5	44.1	**109.6**	40.9
21	24.7	25.0	32.4	**101.8**	71.9	69.4	**95.5**	62.5	49.4	89.2	**101.8**	26.7
22	14.3	33.6	49.8	47.5	44.6	84.5	68.3	57.4	**86.1**	62.8	20.8	16.5
23	**60.3**	39.4	26.6	54.9	64.2	**96.5**	72.8	71.8	33.0	**109.2**	39.6	48.3
24	19.5	21.5	50.3	73.1	68.4	74.0	71.6	68.8	49.3	46.8	20.7	26.4
25	17.1	23.2	41.4	72.3	62.4	63.2	83.1	62.9	48.3	**92.7**	26.5	19.9
26	22.7	23.7	59.7	46.0	**94.3**	92.8	72.9	**94.4**	48.1	**87.0**	17.2	30.5
27	15.4	21.5	62.7	57.3	**106.6**	95.6	85.4	81.4	82.7	**90.0**	**69.8**	39.0
28	13.7	30.1	44.2	**124.0**	**88.1**	72.5	72.9	53.3	80.7	**84.3**	23.2	20.8
29	**40.2**	35.2	47.0	84.4	75.1	71.2	68.3	43.1	58.6	37.9	24.3	**58.7**
30	**40.7**		45.4	70.7	73.5	53.3	77.8	53.7	54.9	21.2	**97.4**	22.8
31	18.1		41.6		76.8		59.5	72.7		87.8		18.0

TABLE III. Continued.

1881.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	34.3	**81.2**	38.1	**84.1**	64.9	85.9	**120.4**	63.4	81.6	52.5	38.2	41.5
2	14.4	32.5	57.6	63.1	59.1	88.6	**109.8**	73.8	65.2	38.5	45.6	36.1
3	26.0	38.0	**133.3**	57.3	50.9	**107.2**	88.5	81.2	68.0	63.0	**62.2**	51.5
4	**43.1**	56.5	**53.0**	54.9	73.3	**137.5**	78.2	80.4	64.0	74.8	**86.9**	23.0
5	**46.4**	46.6	41.9	56.4	60.1	**110.0**	70.8	57.8	83.6	77.5	34.0	19.5
6	15.0	**58.5**	49.3	51.8	78.4	76.8	64.9	73.0	55.8	64.4	46.5	69.1
7	25.0	**52.7**	**53.3**	54.2	67.5	**93.0**	90.1	**93.8**	73.3	63.0	27.1	46.6
8	19.1	**61.2**	42.9	60.4	64.1	80.5	97.5	68.1	79.2	70.6	**77.3**	**78.3**
9	26.0	32.4	37.4	56.4	**104.1**	77.3	67.8	82.6	**136.5**	62.8	**129.2**	**80.4**
10	**54.1**	14.5	50.7	56.7	44.0	85.4	69.7	80.1	55.5	51.4	31.7	71.0
11	33.2	36.8	**52.8**	65.1	53.8	69.8	89.2	73.0	58.8	39.8	25.6	57.5
12	30.2	40.1	**83.6**	63.5	48.3	**95.6**	**98.9**	84.7	**138.2**	42.2	23.0	58.9
13	20.7	32.7	**89.8**	91.9	57.9	83.9	**123.6**	78.1	**234.3**	38.2	27.5	61.6
14	28.1	37.6	53.7	62.2	54.0	104.2	80.1	66.3	**124.8**	42.5	24.1	47.3
15	58.7	**46.8**	50.9	54.9	69.7	83.2	82.6	63.5	63.4	35.6	63.2	30.9
16	37.7	**69.3**	50.6	54.4	89.5	80.1	47.4	69.0	53.2	72.4	65.9	28.3
17	24.8	26.5	41.9	55.7	68.1	92.2	82.0	42.9	34.7	**101.4**	31.9	42.9
18	12.6	35.6	78.4	68.0	75.5	97.4	72.7	73.0	43.9	53.7	29.3	31.0
19	21.3	36.4	**109.7**	64.5	64.6	105.7	88.7	67.2	53.6	62.6	64.3	49.4
20	20.5	39.4	46.2	**92.3**	72.9	88.9	66.3	67.2	76.8	42.5	36.6	33.4
21	36.7	31.0	41.8	**110.8**	72.8	52.6	78.5	67.8	53.2	57.0	28.1	39.7
22	**99.9**	38.1	49.7	61.1	59.9	73.3	76.6	46.9	62.6	46.8	23.4	20.5
23	**86.1**	43.0	44.3	63.2	59.8	107.9	89.1	60.7	54.2	38.1	60.7	**141.5**
24	**62.2**	35.7	46.5	75.2	75.8	102.1	89.9	75.1	61.9	48.6	63.8	**115.0**
25	49.1	29.0	42.2	67.0	81.5	84.4	77.2	76.4	76.3	66.4	21.9	68.3
26	49.1	32.7	44.7	72.0	78.2	78.1	83.0	82.6	69.1	39.5	28.6	51.2
27	46.6	**120.0**	52.5	93.7	71.1	92.1	85.9	85.2	37.7	**60.3**	59.1	28.1
28	22.2	**88.7**	50.5	77.2	80.2	93.2	72.4	71.8	66.4	47.8	58.0	49.2
29	18.8		59.7	92.7	79.3	81.8	91.1	84.6	62.5	43.1	**99.9**	47.2
30	32.5		72.2	62.6	92.2	90.7	86.1	72.7	70.4	48.4	65.4	42.1
31	**205.0**		**119.2**		78.0		74.8	58.7		**65.2**		22.2

TABLE III. Continued.

1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	13.8	**96.2**	37.9	77.7	**111.2**	**95.9**	74.6	**114.7**	64.8	51.5	35.9	36.9
2	16.7	**82.7**	35.8	68.5	**101.0**	72.5	86.8	80.2	81.8	**150.2**	32.4	71.5
3	34.3	37.9	56.7	76.3	58.3	75.6	76.0	70.7	76.5	**87.2**	35.5	33.2
4	24.7	28.4	93.7	104.5	66.8	88.9	78.7	**128.8**	47.3	59.4	28.4	55.7
5	49.3	57.8	72.3	67.7	66.4	79.0	56.3	**142.3**	**104.3**	**84.4**	37.1	18.5
6	34.4	**143.3**	58.9	74.1	69.0	92.1	70.5	61.9	77.8	**127.6**	52.8	14.5
7	24.8	**61.5**	53.4	73.9	100.1	83.2	89.5	51.7	54.0	39.8	51.2	25.7
8	37.3	**59.9**	**111.3**	80.2	103.3	63.8	66.0	35.5	54.4	45.4	35.9	13.1
9	**52.8**	**59.5**	**115.0**	62.6	86.2	49.6	63.6	52.2	56.2	87.4	45.9	**47.6**
10	18.7	**54.4**	47.6	62.4	93.6	78.3	59.8	83.7	48.7	92.8	33.3	28.3
11	62.5	38.6	42.2	58.0	90.3	70.7	59.6	65.9	68.2	62.3	48.5	62.2
12	57.0	39.0	38.8	85.9	90.5	93.4	74.0	**150.0**	80.7	35.8	**125.2**	46.8
13	42.5	81.2	44.5	84.0	65.0	58.5	47.6	**93.0**	68.3	37.1	**223.9**	26.7
14	49.1	37.3	73.8	88.7	**132.1**	83.1	65.7	**101.2**	69.7	64.0	69.3	18.6
15	65.5	31.7	61.0	58.9	73.7	73.8	79.0	79.8	60.5	51.3	52.0	53.6
16	47.5	31.8	64.3	71.1	83.4	70.8	**119.0**	90.2	42.1	63.4	34.2	**92.1**
17	22.5	35.4	50.9	**239.7**	**108.9**	56.1	**115.4**	71.7	41.1	62.3	**167.0**	21.8
18	22.5	27.5	57.7	85.0	76.1	86.5	82.9	70.1	68.5	41.4	**188.9**	23.1
19	**121.5**	45.6	78.0	18.5	93.3	92.5	71.4	77.3	52.4	38.2	**105.6**	**75.1**
20	**108.3**	**113.5**	67.8	**220.7**	**111.5**	**103.5**	68.4	66.0	74.8	42.2	**347.4**	**102.5**
21	35.3	26.7	83.2	84.6	106.0	**103.9**	58.6	52.6	42.0	43.5	**236.6**	**118.1**
22	67.4	40.8	63.4	67.6	120.8	65.7	90.0	79.5	45.4	93.2	44.8	49.8
23	30.0	40.2	56.4	98.8	84.3	79.7	75.1	45.0	74.7	53.1	56.7	38.2
24	61.7	40.8	59.6	66.8	81.5	**202.4**	61.4	53.3	55.7	59.1	46.0	35.1
25	28.3	36.0	51.5	67.9	71.0	84.1	64.4	73.8	**106.6**	72.9	**88.2**	25.8
26	26.9	27.1	51.3	74.1	84.3	98.9	69.7	80.9	40.9	46.8	**63.4**	26.9
27	30.7	32.7	84.6	86.0	73.0	86.6	63.0	84.3	31.7	52.7	38.0	28.3
28	14.2	32.6	56.8	67.6	**99.9**	57.9	71.2	81.3	46.9	**152.9**	25.7	35.8
29	41.3		66.1	79.6	76.0	78.0	67.5	83.5	56.0	**74.5**	19.3	**60.4**
30	**49.8**		62.3	**95.9**	87.1	66.8	92.1	52.9	58.0	32.7	61.2	**65.1**
31	21.8		69.8		79.6		**129.6**	81.2		22.5		53.3

TABLE III. Continued.

1883.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	49.5	**130.3**	**93.6**	54.6	73.0	88.3	**118.3**	**141.9**	53.6	36.6	**69.8**	**75.6**
2	37.3	**80.1**	**78.7**	55.2	58.5	**126.6**	41.7	62.9	**98.3**	42.9	**85.2**	**76.0**
3	13.3	**95.3**	54.1	**306.0**	68.6	79.6	72.6	70.4	67.4	33.7	**75.7**	26.4
4	15.0	**89.1**	43.8	**98.5**	68.0	70.2	87.2	73.6	49.7	54.5	48.2	37.6
5	33.6	42.1	32.7	63.5	73.4	68.3	77.0	**94.6**	**91.2**	**126.6**	38.8	16.5
6	**70.9**	64.7	59.8	51.2	73.1	95.9	89.0	**116.1**	**85.2**	**83.7**	37.3	21.5
7	57.6	31.3	61.3	53.2	48.5	92.1	**120.2**	79.5	76.2	57.4	32.2	18.1
8	55.9	28.9	**83.7**	70.9	68.0	97.1	**148.7**	63.6	86.1	49.4	31.9	56.3
9	33.4	41.3	**70.2**	77.2	85.2	75.2	89.0	52.3	79.8	49.6	30.6	**69.8**
10	19.9	45.4	51.7	66.2	58.5	78.0	77.8	72.3	73.3	47.1	31.2	20.5
11	24.4	23.1	46.2	58.5	59.2	90.3	**117.0**	51.7	62.6	55.3	35.2	48.7
12	20.5	25.9	55.9	71.2	65.9	70.2	78.7	63.2	49.3	70.6	61.7	**60.2**
13	25.4	35.6	**87.4**	66.8	77.4	43.5	70.9	76.4	**88.3**	64.6	24.6	**62.8**
14	30.3	54.5	52.2	54.9	71.1	60.5	**111.2**	76.2	80.9	49.9	**50.5**	39.2
15	36.6	22.5	30.9	65.4	58.8	75.5	88.7	80.8	55.4	**93.3**	41.2	16.3
16	16.3	32.3	52.1	81.8	79.2	65.4	74.3	52.2	**115.0**	**88.7**	23.4	20.1
17	41.8	49.6	36.7	72.4	95.8	**94.8**	90.4	57.1	**69.9**	**119.5**	32.1	58.3
18	39.2	45.1	54.7	87.9	59.2	80.0	**127.5**	**116.9**	81.2	76.4	31.4	**66.0**
19	22.2	26.6	53.4	**114.7**	50.5	64.8	98.0	78.2	39.3	69.3	51.1	31.6
20	43.8	56.4	54.7	**99.6**	**90.9**	**103.3**	95.6	69.7	65.6	**105.5**	**81.6**	32.1
21	39.2	52.8	**112.9**	57.3	**119.7**	81.3	**106.1**	61.6	55.9	50.9	45.5	27.9
22	33.0	**135.4**	**98.3**	52.7	79.1	**111.7**	84.9	89.5	55.0	68.9	**106.2**	19.0
23	22.0	**110.9**	50.8	59.6	67.3	**95.9**	85.3	88.4	71.6	38.7	**83.8**	17.5
24	**69.9**	**119.4**	47.0	**173.3**	82.2	**93.8**	**104.7**	64.4	66.5	35.1	23.0	16.5
25	**99.0**	**132.3**	61.4	**109.5**	72.6	**93.7**	87.5	46.5	**81.5**	44.1	23.1	38.7
26	**80.7**	40.1	**97.6**	**88.8**	78.0	**101.4**	**107.7**	51.7	48.7	34.9	19.0	28.9
27	39.9	**91.1**	**196.5**	72.0	61.7	97.2	57.0	70.6	35.6	48.7	48.9	25.1
28	35.6	**99.0**	**76.6**	53.2	76.6	77.9	57.6	65.4	70.0	33.8	28.0	41.7
29	40.7		**84.3**	72.4	62.7	73.4	60.6	89.6	51.7	35.0	22.1	22.6
30	35.1		73.9	**94.5**	80.0	**94.1**	**134.0**	68.4	52.5	31.3	25.8	32.5
31	50.7		66.9		69.1		72.6	53.3		47.6		18.3

TABLE III. Continued.

1884.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	15.4	**56.6**	**139.0**	64.0	96.1	**89.8**	87.6	65.1	56.5	42.0	36.8	37.8
2	23.9	40.1	**101.3**	81.1	69.7	**117.7**	78.5	77.0	66.1	**147.1**	**154.2**	15.4
3	18.0	62.8	**105.2**	69.7	67.1	67.3	**156.9**	71.7	64.4	**103.7**	**184.7**	22.1
4	22.8	**73.4**	47.8	62.3	77.3	90.6	**158.4**	82.3	66.4	43.3	49.7	26.4
5	40.4	**79.8**	50.2	65.7	63.2	86.5	81.0	73.2	62.5	68.5	21.4	23.8
6	30.8	47.2	48.9	70.4	68.4	96.5	70.7	71.8	76.8	70.4	43.9	15.9
7	21.2	45.8	76.0	67.9	66.4	100.4	74.6	72.4	79.3	**99.8**	37.8	21.0
8	**53.5**	60.8	52.6	66.4	52.3	61.7	82.7	**111.6**	63.6	50.0	29.5	**61.6**
9	27.7	47.5	38.4	81.5	61.7	85.2	98.8	**109.1**	61.1	38.3	48.3	30.3
10	34.9	29.5	52.5	**109.5**	**97.4**	85.0	105.1	72.5	62.6	52.4	48.9	20.2
11	**49.4**	37.3	51.0	81.6	**98.4**	**108.5**	98.3	67.1	60.5	45.7	42.3	**56.1**
12	**43.9**	27.6	47.4	79.0	61.9	94.4	62.0	81.0	60.0	41.4	29.8	38.4
13	**47.8**	26.9	67.2	65.7	70.7	**105.2**	**81.6**	82.2	77.8	49.5	36.5	15.0
14	27.0	21.6	60.8	70.9	75.2	**103.9**	**77.3**	90.0	**122.0**	**92.9**	36.4	**69.8**
15	30.4	32.5	59.3	**94.1**	93.7	88.4	77.7	57.6	71.8	72.0	31.7	**83.1**
16	26.8	51.6	57.5	79.7	73.7	75.7	72.9	39.2	64.3	33.7	34.9	49.2
17	22.0	30.0	52.7	**116.3**	80.4	**102.6**	63.5	57.4	**99.2**	59.9	67.1	25.6
18	32.7	43.5	41.4	**94.4**	79.4	**109.4**	61.1	62.0	**171.6**	45.7	41.2	28.9
19	**41.5**	38.9	70.1	79.6	90.3	69.6	93.9	73.4	50.8	65.4	**45.5**	14.8
20	24.5	36.2	**94.4**	75.9	69.1	84.4	47.8	87.6	52.1	31.5	29.3	**62.6**
21	25.6	36.6	**94.0**	57.0	73.3	80.0	58.9	79.9	55.8	43.3	19.3	17.0
22	19.4	41.8	81.0	68.8	**103.3**	**91.3**	59.6	**116.1**	54.8	35.3	23.9	**67.1**
23	29.5	**86.3**	86.3	81.4	86.7	**96.1**	77.3	67.2	56.7	31.7	43.5	**65.5**
24	14.3	**106.6**	79.7	**134.8**	78.9	73.8	82.6	66.6	57.9	42.7	54.3	16.2
25	31.2	58.1	56.4	**115.1**	69.8	87.6	78.5	81.4	53.9	49.8	44.0	25.9
26	**59.2**	54.9	60.5	**112.2**	93.4	84.4	51.8	74.6	52.9	44.3	22.5	21.8
27	43.2	68.0	84.4	95.8	83.4	94.0	76.1	80.6	56.2	34.2	13.2	25.0
28	26.7	69.9	**110.6**	80.8	83.4	94.0	56.2	66.2	70.2	38.0	**64.4**	**78.7**
29	30.9	**98.2**	**151.4**	69.3	84.1	94.8	78.9	65.8	60.9	**104.8**	36.7	35.6
30	41.4		70.0	76.8	80.7	82.1	72.2	62.9	68.0	37.6	29.3	26.2
31	33.9		74.0		105.4		72.2	54.3		28.0		31.0

TABLE III. Continued.

1885.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	20.9	16.8	48.3	74.3	63.6	96.0	**136.2**	**125.5**	82.8	60.6	38.3	45.3
2	105.3	12.9	50.1	44.9	74.1	**114.0**	90.2	54.0	81.0	57.2	21.3	45.1
3	45.6	23.0	64.1	64.4	68.6	92.1	101.3	72.9	64.9	51.5	36.2	29.4
4	26.6	44.5	47.3	54.6	93.2	94.4	80.1	55.4	**108.0**	37.7	36.3	18.8
5	14.7	56.8	41.6	55.1	98.1	79.3	92.6	51.4	**93.9**	49.4	32.9	22.0
6	39.0	51.5	53.0	65.8	84.9	86.5	81.0	70.1	72.2	49.6	37.8	**81.9**
7	35.1	27.0	38.7	71.7	76.5	82.2	76.5	70.2	70.8	48.2	48.6	**79.3**
8	53.3	60.2	31.8	69.0	87.0	70.2	67.8	94.3	87.9	50.7	60.7	**83.2**
9	87.9	41.1	37.1	73.0	74.2	91.0	68.7	52.8	58.4	54.2	51.3	41.9
10	43.9	59.5	48.3	53.8	95.6	92.0	60.4	74.4	60.2	43.3	**111.0**	18.0
11	35.8	27.8	46.0	57.6	**116.1**	76.8	70.2	83.6	80.7	52.0	**104.4**	15.0
12	39.3	**96.7**	62.0	46.3	69.0	73.8	80.5	80.2	61.6	64.0	29.2	11.2
13	22.7	**75.0**	**90.0**	79.1	**201.4**	81.7	43.8	64.9	72.3	83.5	24.9	25.2
14	20.5	30.2	54.7	57.6	**116.7**	**113.6**	74.6	64.8	58.9	58.5	26.5	49.3
15	22.4	28.8	**191.3**	**95.9**	83.5	70.9	86.8	74.9	**105.6**	86.9	22.1	18.1
16	30.7	38.0	**107.3**	**95.7**	84.5	92.6	64.6	86.1	**103.0**	45.9	29.0	14.4
17	25.6	46.0	60.1	46.2	70.7	97.3	108.4	83.3	71.1	39.2	20.2	23.9
18	58.7	67.5	53.6	66.9	72.3	**111.2**	99.3	68.2	59.7	55.9	**113.3**	43.2
19	47.7	35.7	48.7	87.3	87.9	**112.6**	84.7	71.4	46.7	44.9	61.6	30.4
20	44.2	24.5	93.6	72.1	86.7	**121.7**	71.4	75.7	40.4	52.8	41.8	38.4
21	28.5	54.7	75.6	54.2	70.2	83.0	85.4	63.8	51.0	36.9	32.6	28.0
22	**136.5**	89.1	55.7	61.2	65.8	**109.5**	82.5	65.0	69.8	48.9	46.6	35.8
23	38.0	28.9	50.9	56.0	83.1	87.0	84.4	61.0	**103.1**	57.9	22.6	20.5
24	42.4	32.8	33.6	63.0	**116.1**	77.5	95.2	65.2	55.9	42.4	24.8	19.1
25	27.7	23.6	38.4	73.0	**123.5**	**176.2**	82.1	54.5	49.5	46.2	64.0	20.4
26	18.1	28.4	45.5	72.0	**98.5**	**98.5**	73.9	**117.0**	40.1	44.3	37.8	24.6
27	49.0	57.7	50.9	88.2	62.4	84.1	78.2	**110.3**	77.5	39.1	39.8	10.9
28	50.6	87.2	56.0	87.8	**114.5**	71.1	97.4	**103.8**	64.3	46.5	23.3	40.7
29	46.7		53.2	68.9	91.8	84.9	84.6	**103.5**	53.5	40.5	15.5	27.2
30	**72.9**		57.5	74.0	**116.2**	97.3	65.4	64.9	45.9	54.4	14.6	21.4
31	7.8		57.8		77.1		91.0	85.8		83.4		20.7

TABLE III. Continued.

1886.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	32.5	42.9	44.0	81.4	83.1	77.8	78.5	75.3	63.5	58.5	34.0	63.7
2	73.5	35.9	52.6	53.7	61.2	63.8	93.2	80.5	63.2	49.0	84.9	**87.8**
3	59.1	37.3	51.6	64.2	72.9	70.4	71.3	85.3	73.3	56.9	**123.7**	61.5
4	54.0	59.3	41.1	74.0	66.6	100.4	84.3	74.7	55.1	38.5	**116.2**	72.1
5	38.6	66.5	25.3	67.2	71.9	118.3	87.3	66.2	58.6	46.8	**96.8**	73.6
6	18.5	33.7	47.1	51.6	79.8	93.1	87.7	89.7	48.8	**107.0**	**113.1**	38.7
7	23.8	38.7	**66.9**	55.4	66.4	84.0	72.8	72.6	66.7	**149.0**	56.4	67.6
8	17.6	37.2	41.8	51.3	**136.2**	84.6	91.0	56.4	61.7	**113.3**	38.4	67.9
9	**206.8**	16.0	40.7	59.5	**170.9**	63.0	92.3	61.6	**134.4**	**85.6**	44.2	20.5
10	48.8	47.5	70.2	53.9	**96.7**	71.6	86.5	58.3	**117.6**	**123.2**	34.1	26.6
11	28.9	**105.0**	46.6	81.4	84.2	62.1	75.9	68.5	**77.4**	52.7	37.8	38.3
12	15.1	28.1	36.9	**141.6**	86.8	95.8	85.1	**98.5**	**111.1**	53.2	**91.8**	38.7
13	16.5	32.8	42.8	**88.6**	81.3	71.8	54.0	52.9	**81.6**	50.3	65.0	52.5
14	41.1	29.6	41.5	**127.9**	74.9	53.7	103.3	**92.0**	**89.9**	44.7	43.3	58.5
15	**58.6**	45.2	49.3	**104.4**	88.8	61.6	49.3	60.7	41.3	47.3	61.6	49.9
16	26.8	69.6	86.8	94.7	87.6	83.2	63.8	84.3	58.5	35.6	46.7	34.9
17	19.1	**83.5**	**88.5**	67.3	**105.8**	68.7	41.7	72.5	79.0	72.0	79.1	67.6
18	16.8	65.1	**90.4**	87.4	94.1	67.3	83.2	54.9	50.7	74.0	30.5	50.9
19	63.1	**77.5**	**88.0**	**109.0**	74.9	78.0	**116.3**	61.2	57.5	54.0	34.4	38.5
20	54.3	58.3	**82.9**	81.7	82.8	61.7	79.8	62.1	39.5	32.2	48.5	19.7
21	54.2	55.2	72.5	70.5	76.8	75.3	69.2	62.2	**93.9**	48.5	25.7	47.2
22	**54.5**	**77.4**	81.3	55.4	65.7	**97.8**	58.3	53.7	43.4	39.2	24.8	46.0
23	29.5	50.6	**107.9**	66.5	83.9	81.8	52.5	65.4	61.6	30.0	67.9	60.5
24	47.1	36.2	67.7	57.5	85.0	60.1	61.3	**79.4**	42.3	24.6	**103.6**	29.6
25	25.6	41.8	43.8	59.9	84.7	66.3	58.2	54.4	48.1	37.7	38.2	31.7
26	24.4	41.8	52.3	59.1	84.2	61.6	59.8	76.0	43.8	52.6	22.6	53.6
27	48.4	36.8	97.7	72.3	91.0	60.4	**116.3**	54.2	46.5	70.3	30.2	57.6
28	28.8	33.1	86.8	60.1	68.0	63.7	**205.0**	54.0	50.5	79.6	19.1	76.1
29	50.3		68.2	69.6	53.8	**97.4**	88.9	68.1	46.7	64.6	80.8	81.1
30	**91.4**		**223.7**	89.2	61.5	**113.8**	66.3	59.0	90.2	26.2	**108.0**	54.8
31	43.4		**178.5**		61.5		76.1	67.1		30.6		21.0

TABLE III. Continued.

1887.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	19.7	70.6	30.3	46.8	59.3	79.7	66.8	90.2	89.0	32.2	38.6	37.1
2	13.1	35.8	29.1	51.7	77.1	59.7	63.8	**98.3**	81.8	24.4	27.7	31.8
3	32.6	54.9	33.8	72.2	55.0	53.5	56.0	**91.8**	59.9	27.4	51.2	23.7
4	48.7	78.9	33.6	63.0	68.5	64.9	79.4	68.8	44.7	32.3	33.5	26.3
5	36.3	59.7	61.3	**98.5**	68.6	**118.2**	97.0	76.9	45.1	48.7	24.5	26.2
6	31.8	46.8	**124.0**	**81.7**	61.0	56.9	67.7	67.3	51.1	51.3	29.8	63.7
7	44.5	60.8	39.3	68.0	60.6	67.0	**133.8**	75.0	52.0	51.0	18.6	43.7
8	24.0	33.7	56.5	79.3	64.5	86.2	**102.8**	62.8	61.9	45.8	34.7	24.7
9	25.2	68.8	**71.4**	40.1	59.2	67.4	58.2	75.7	62.5	43.5	**73.5**	27.3
10	19.9	35.2	29.3	53.7	75.1	**82.0**	76.1	63.4	91.8	39.9	**65.0**	23.7
11	37.7	40.3	56.2	72.6	71.8	60.6	74.8	57.8	65.4	41.5	26.9	29.0
12	26.1	**101.3**	35.0	58.4	88.2	61.8	42.0	62.8	68.3	42.9	24.6	22.4
13	26.8	91.1	52.5	47.8	58.4	43.3	60.2	69.9	41.1	66.7	43.9	68.9
14	85.0	57.9	40.5	56.2	66.8	52.8	52.1	98.0	59.5	55.5	24.9	23.7
15	89.4	64.3	38.1	54.2	48.9	54.3	83.9	**104.8**	78.8	29.5	27.0	22.1
16	68.8	36.6	77.8	64.4	55.8	53.5	56.3	52.6	65.2	37.5	19.5	**123.4**
17	50.5	36.3	40.4	76.2	60.0	49.5	81.4	71.6	36.3	43.3	61.0	**114.1**
18	72.4	22.2	36.7	38.3	51.4	72.0	**106.5**	52.4	38.8	36.3	32.6	60.5
19	45.8	41.0	60.5	47.1	48.8	75.2	88.6	61.3	42.1	34.1	39.2	65.9
20	41.2	81.8	53.3	46.6	64.5	79.0	82.0	63.2	41.2	24.5	**83.4**	53.3
21	29.5	90.0	64.7	49.1	57.8	**100.3**	68.2	58.1	58.7	41.9	**124.1**	72.2
22	57.1	70.0	66.7	82.0	63.3	**116.7**	57.6	64.1	53.5	**99.7**	54.7	**82.0**
23	95.5	55.6	52.5	66.0	83.4	76.6	63.7	48.8	73.5	**112.2**	44.9	23.6
24	52.4	39.8	**88.6**	43.9	**131.9**	68.7	77.9	60.1	95.1	33.2	24.3	27.8
25	57.2	38.7	35.1	60.0	**96.1**	64.8	67.8	50.4	**145.4**	31.9	16.0	36.3
26	45.3	29.2	50.0	49.2	**98.9**	60.8	65.2	56.6	**204.5**	**79.2**	15.2	64.4
27	23.9	40.2	41.0	55.5	**109.4**	59.0	72.9	61.6	73.5	**65.4**	20.0	61.3
28	33.8	23.6	37.1	**115.9**	64.7	62.6	73.2	**100.1**	81.3	27.9	25.5	32.3
29	53.1		30.7	66.0	63.8	49.6	69.9	**124.4**	52.3	21.1	71.5	31.3
30	21.9		39.4	50.4	61.9	82.3	73.5	69.4	57.8	**80.2**	43.4	47.4
31	29.0		39.7		64.6		74.0	66.3		32.8		20.5

TABLE III. Continued.

1888.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	33.5	18.3	34.7	45.7	68.2	56.7	**127.5**	58.8	60.6	38.7	**64.4**	24.7
2	24.8	28.1	23.5	60.7	47.5	60.1	77.5	78.0	47.7	27.4	37.3	28.2
3	19.4	50.4	27.4	**68.8**	56.3	**147.0**	74.8	**82.8**	44.9	30.4	26.7	35.8
4	28.3	29.5	33.9	**63.7**	48.3	62.7	63.7	79.6	36.5	37.9	32.9	26.6
5	23.1	60.0	25.5	47.6	43.9	66.7	59.9	45.1	42.7	67.7	42.0	39.4
6	47.9	12.6	27.2	40.6	50.6	74.8	80.1	57.2	45.7	58.0	**69.7**	65.8
7	26.0	21.6	65.5	45.9	**102.3**	72.2	83.4	46.7	68.0	32.7	**59.0**	15.8
8	**75.3**	35.8	46.7	53.1	60.1	68.1	84.8	53.9	53.6	31.6	**61.2**	**68.1**
9	22.2	52.9	85.5	37.5	74.7	57.7	63.5	63.8	71.0	34.7	32.2	26.1
10	28.0	54.8	24.4	44.9	72.5	78.5	58.3	73.5	46.9	36.5	27.9	20.9
11	32.9	79.2	36.8	**139.3**	49.5	71.6	62.9	83.7	44.9	50.4	37.2	16.7
12	35.3	58.0	33.2	**93.6**	61.4	63.1	64.3	**100.8**	57.1	47.8	18.3	19.6
13	**105.0**	21.9	38.0	**91.4**	63.6	73.3	58.9	56.9	69.2	47.9	24.4	61.6
14	**51.7**	18.7	43.0	**67.9**	63.3	67.5	70.6	62.1	58.3	36.9	17.9	67.4
15	46.0	18.3	80.1	40.2	65.9	80.1	87.1	61.3	**67.7**	24.4	26.4	69.5
16	24.4	59.0	**143.8**	56.6	59.0	85.3	80.0	**112.0**	42.6	29.2	**78.8**	27.0
17	43.5	39.5	**102.0**	54.8	62.4	72.9	60.7	52.2	44.3	27.6	**114.1**	21.0
18	28.8	76.7	58.6	37.1	57.4	67.1	77.1	57.3	67.5	38.4	53.9	22.1
19	18.7	86.3	57.3	63.5	51.8	72.8	66.9	62.3	**83.2**	**117.6**	33.0	19.7
20	18.6	56.3	48.4	43.6	**106.3**	61.3	64.5	41.8	**93.5**	**96.0**	28.3	11.2
21	26.7	67.2	60.7	50.4	**95.4**	80.3	57.8	60.0	51.0	**83.6**	18.7	21.8
22	47.9	67.7	45.9	42.5	74.2	80.0	53.7	61.6	39.7	41.8	18.4	18.2
23	**136.5**	35.4	60.1	46.0	74.5	69.6	51.2	64.0	52.0	59.3	7.8	13.1
24	**56.9**	37.0	46.9	65.2	88.1	61.6	54.4	52.3	41.4	67.8	11.9	**72.7**
25	35.6	37.4	42.3	75.4	69.0	58.0	67.8	64.3	56.3	46.5	41.3	48.6
26	39.8	38.1	38.7	67.2	104.7	54.7	55.9	59.3	56.3	35.4	34.8	58.9
27	46.9	21.9	41.9	58.9	64.5	50.9	65.0	68.8	80.2	26.6	55.3	19.7
28	50.0	32.0	78.3	69.8	62.5	70.2	**103.5**	59.8	75.8	22.5	44.2	15.1
29	39.2	49.1	57.7	56.4	70.4	57.6	87.0	45.1	72.6	25.1	36.4	18.2
30	28.3		52.5	55.9	55.4	72.0	63.9	56.4	31.5	20.9	34.8	25.5
31	36.8		67.2		53.8		67.6	53.5		61.3		23.1

TABLE IV. Vertical Force. Mean monthly and annual values of the twenty-four-hour sums, uncorrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1873.	405.1	276.3	354.0	309.8	265.3	344.0	291.3	245.1	274.2	238.3	203.4	151.8	279.9
1874.	243.0	280.3	245.6	354.9	190.4	231.6	200.0	211.5	220.4	323.1	219.3	144.4	238.7
1875.	127.8	221.6	199.9	180.0	172.7	156.7	161.6	125.7	172.2	153.6	114.8	114.4	158.4
1876.	135.3	223.0	188.5	120.4	143.9	141.8	131.5	133.9	130.0	190.3	170.3	170.4	156.6
1877.	116.6	115.4	118.7	124.5	224.9	125.6	109.4	109.9	108.6	100.0	136.1	109.2*	124.9
1878.	82.3	82.0	87.7	131.9	126.3	142.8	100.6	91.5	79.4	68.9	68.9	77.9	95.0
1879.	57.4	53.9	104.0	99.9	105.6	100.1	84.6	93.5	91.2	64.7	59.8	83.1	83.2
1880.	68.4	62.0	118.6	120.9	167.9	117.2	143.3	374.0	177.5	173.3	137.9	141.8	150.2
1881.	150.1	139.1	143.1	145.2	121.0	190.6	197.8	105.6	209.1	129.9	188.5	146.2	155.5
1882.	117.5	143.2	151.2	352.4	299.3	225.7	152.3	240.3	128.7	283.0	593.1	162.5	237.4
1883.	103.8	233.1	240.6	279.8	168.0	193.5	266.1	158.5	219.9	151.7	197.4	99.5	192.7
1884.	77.3	102.3	179.9	205.5	144.2	170.8	215.7	133.3	145.0	156.2	191.1	110.1	152.6
1885.	224.9	203.4	211.7	163.9	287.9	230.3	168.9	211.7	219.6	153.5	144.3	126.8	195.6
1886.	189.8	161.8	270.2	253.7	229.3	218.6	233.5	170.5	160.6	233.9	168.3	139.7	202.5
1887.	177.7	183.0	135.7	186.5	170.2	139.2	161.5	228.5	223.6	161.9	158.5	142.0	172.4
1888.	169.6	129.3	232.5	161.8	186.3	171.3	148.7	157.6	158.9	182.6	131.6	104.8	161.3
Means.	152.9	163.1	186.4	199.4	187.7	181.2	172.9	174.4	169.9	172.8	180.2	126.5	172.3

* Interpolated.

TABLE V. Horizontal Force. Mean monthly and annual values of the twenty-four-hour sums, uncorrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1873.	283.1	245.6	380.4	464.7	394.0	470.1	410.5	347.7	315.9	241.8	206.4	129.4	324.1
1874.	182.7	239.6	277.7	352.5	335.7	357.2	348.1	323.9	284.4	279.1	167.5	121.1	272.5
1875.	104.5	167.2	212.4	286.6	316.4	310.7	285.3	247.4	251.1	181.1	130.3	100.3	216.1
1876.	114.9	161.4	199.1	213.3	243.9	275.1	280.4	274.0	223.1	190.1	147.5	111.0	202.8
1877.	116.8	114.0	178.1	254.1	315.6	302.5	289.6	254.2	224.7	175.1	129.9	105.3	205.0
1878.	93.8	94.0	142.6	237.6	218.3	261.6	213.9	197.2	200.5	120.9	99.3	122.0	166.8
1879.	82.4	83.8	153.5	207.4	229.8	250.5	256.5	233.5	218.3	154.7	99.7	107.7	173.2
1880.	101.2	102.4	193.8	258.0	303.8	281.2	300.8	384.0	290.9	264.3	191.9	166.4	236.6
1881.	175.8	216.0	230.9	307.9	291.2	389.3	370.5	283.2	336.1	248.7	210.1	179.5	269.9
1882.	152.5	214.2	221.8	543.3	418.3	440.9	321.5	376.3	288.7	301.8	565.6	166.9	334.3
1883.	126.3	233.4	295.8	385.0	323.8	381.3	431.8	305.5	349.9	289.2	229.2	137.9	290.8
1884.	142.8	224.7	319.5	383.5	292.7	347.8	366.6	279.1	297.9	280.7	222.2	150.9	275.7
1885.	198.1	185.4	304.3	319.2	445.8	420.3	345.3	353.7	330.9	252.0	217.1	168.2	295.0
1886.	265.1	212.2	355.5	379.4	380.4	369.0	407.5	320.0	327.2	306.1	274.1	188.8	315.4
1887.	172.8	221.9	224.9	323.0	312.9	309.5	325.3	341.4	318.5	208.1	195.9	189.7	262.0
1888.	244.7	156.1	251.1	291.5	318.9	300.2	305.9	286.1	273.9	232.2	171.1	153.2	248.7
Means.	159.8	179.5	246.3	325.4	321.3	341.7	328.7	300.5	283.3	232.9	203.6	143.6	255.6

TABLE VI. Declination. Mean monthly and annual values of the twenty-four-hour sums, uncorrected for disturbances. Unity = 1 minute of arc.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1873.	78′.48	69′.37	90′.82	99′.30	90.85	88′.81	89′.38	69′.42	77′.02	60′.45	49′.97	40′.01	75′.32
1874.	53.98	58.67	66.49	78.62	74.16	78.70	80.82	70.04	70.50	58.34	44.54	30.93	63.82
1875.	29.49	38.73	52.43	66.55	74.77	74.01	66.26	61.68	53.44	43.65	32.81	25.47	51.61
1876.	31.67	39.01	51.26	55.59	62.83	70.34	67.40	63.53	51.47	44.01	31.68	29.57	49.86
1877.	32.38	31.55	45.10	53.38	64.61	67.22	68.94	60.48	48.71	34.45	30.28	24.13	46.77
1878.	22.91	29.34	37.94	55.54	60.18	66.63	61.05	57.68	47.98	31.06	25.76	30.62	43.89
1879.	24.61	23.67	42.79	48.75	60.95	66.12	63.67	59.14	49.65	34.47	25.02	30.94	44.15
1880.	23.94	26.71	48.29	60.12	68.51	72.30	71.02	76.29	59.77	55.27	43.36	40.48	53.84
1881.	41.92	46.20	59.30	68.11	69.34	89.98	83.67	71.66	75.29	55.18	49.30	50.78	63.39
1882.	42.36	51.43	63.44	84.91	88.52	83.06	75.72	79.20	61.67	65.41	82.68	45.30	68.64
1883.	39.76	64.33	68.39	83.43	71.99	84.67	91.35	74.16	68.58	59.47	44.64	36.85	65.64
1884.	31.93	52.07	72.97	82.26	79.19	90.03	80.47	74.83	69.12	56.22	46.70	36.39	64.35
1885.	43.16	45.21	59.44	67.65	91.09	93.97	82.55	76.42	69.69	52.47	42.30	32.36	63.03
1886.	45.52	49.38	71.46	75.21	83.32	76.97	80.94	68.44	66.55	59.60	60.05	51.25	65.72
1887.	43.17	53.75	49.84	61.83	69.65	69.30	73.98	71.76	68.97	46.25	40.66	45.50	57.89
1888.	41.23	43.58	52.51	59.47	67.02	70.48	70.78	63.71	56.76	45.25	39.64	32.97	53.62
Means.	39.16	45.19	58.28	68.80	73.56	77.66	75.50	68.65	62.20	50.10	43.09	36.47	58.22

TABLE VII. Vertical Force. Mean monthly and annual values of the twenty-four-hour sums, corrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1873.	136.1	201.0	182.8	234.9	229.6	207.6	204.8	245.1	242.6	183.1	115.3	97.0	190.0
1874.	154.5	202.4	143.3	213.0	147.4	185.0	164.8	164.9	109.7	149.0	147.3	133.4	159.6
1875.	127.8	151.3	128.7	127.0	133.7	150.0	141.0	114.1	138.2	130.2	93.4	98.5	127.8
1876.	122.4	130.7	107.1	120.4	138.9	141.8	131.5	126.3	101.2	126.2	148.5	127.5	126.9
1877.	87.9	88.0	99.5	109.7	133.4	115.6	94.3	89.3	76.4	76.2	88.7	75.7*	94.6
1878.	62.7	63.4	83.9	113.0	91.4	80.3	100.6	83.2	64.5	46.3	42.9	44.0	73.0
1879.	43.0	53.9	81.8	86.3	86.8	85.1	75.5	83.6	67.3	59.2	45.2	49.2	68.1
1880.	51.1	57.9	77.7	106.3	97.9	110.0	125.8	136.0	76.3	87.7	68.2	88.8	90.3
1881.	58.5	79.1	86.7	117.3	110.9	123.2	142.2	96.4	104.8	90.8	85.9	115.7	101.0
1882.	77.2	79.8	139.4	186.9	203.8	140.5	116.9	154.3	89.0	146.5	110.2	83.8	127.4
1883.	82.7	97.1	127.1	105.6	124.1	122.8	150.1	114.6	102.5	58.4	70.6	46.9	100.2
1884.	49.5	85.3	116.2	153.8	133.7	102.8	127.4	105.0	66.8	65.7	78.7	58.8	95.3
1885.	204.7	187.0	131.9	147.1	183.7	165.1	160.3	178.1	157.9	153.5	96.7	104.7	155.9
1886.	135.0	125.3	134.3	190.6	171.9	184.1	190.9	136.2	99.5	164.1	92.1	127.3	145.9
1887.	177.7	173.7	108.2	153.4	146.2	101.7	113.3	186.8	119.9	111.7	112.0	102.7	133.9
1888.	110.9	129.3	207.3	104.6	132.9	151.7	135.3	114.0	138.7	166.9	100.4	89.6	131.8
Means.	105.1	119.1	122.2	141.9	141.6	135.5	135.9	133.0	109.7	113.5	93.5	90.2	120.1

* Interpolated.

TABLE VIII. Horizontal Force. Mean monthly and annual values of the twenty-four-hour sums, corrected for disturbances. Unity = 0.00001 c. g. s.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1873.	184.3	220.4	299.7	435.7	376.3	381.6	350.8	347.7	304.8	234.1	156.0	111.6	283.6
1874.	146.3	179.7	237.6	300.8	312.1	339.2	328.0	309.4	254.5	201.4	124.8	111.8	237.1
1875.	104.5	119.1	192.1	251.9	297.8	306.0	269.2	244.2	227.5	160.7	111.3	89.7	197.8
1876.	105.5	109.7	147.9	213.3	229.7	275.1	280.4	269.5	206.1	165.4	124.2	83.3	184.2
1877.	92.8	103.9	160.6	239.7	275.3	290.3	282.8	243.9	201.3	154.3	98.4	86.4	185.8
1878.	78.8	88.7	140.8	228.4	204.1	235.4	213.9	192.5	189.4	105.8	82.4	91.0	154.3
1879.	69.8	83.8	138.3	203.9	208.1	238.9	251.3	226.0	203.1	143.7	89.5	74.6	160.9
1880.	77.7	99.5	168.1	252.9	257.6	275.0	291.5	281.2	261.4	229.5	152.8	132.1	206.6
1881.	102.6	166.0	201.4	292.7	285.9	346.1	333.3	279.4	273.2	223.4	158.8	149.0	234.3
1882.	129.1	166.0	218.7	327.9	377.6	373.2	288.0	329.6	255.5	246.4	190.9	138.1	253.4
1883.	104.3	153.1	234.0	297.3	296.4	339.0	357.2	296.7	275.3	259.6	161.5	120.4	241.2
1884.	114.7	205.7	296.2	368.4	280.1	311.9	322.5	254.6	254.7	233.3	171.0	104.0	243.1
1885.	174.0	169.6	248.2	315.4	352.3	385.2	337.0	334.8	306.3	252.0	193.0	139.6	267.3
1886.	201.1	185.1	268.5	340.0	332.3	349.3	373.9	293.7	278.6	247.5	218.1	188.8	273.1
1887.	172.7	206.4	208.8	299.0	292.2	284.9	299.2	316.3	268.2	173.9	160.2	151.2	236.1
1888.	184.2	156.1	221.1	259.0	278.5	277.1	300.4	254.0	272.1	219.4	139.0	138.7	225.0
Means.	127.7	150.8	211.4	289.1	291.0	313.0	305.0	279.6	252.0	203.2	145.7	119.4	224.0

TABLE IX. Declination. Mean monthly and annual values of the twenty-four-hour sums, corrected for disturbances. Unity = 1 minute of arc.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1873.	45.17	59.85	74.21	90.87	85.17	77.19	82.03	69.42	77.02	58.41	40.44	31.05	65.90
1874.	40.42	44.37	56.82	61.26	70.18	75.47	79.52	67.81	61.95	44.66	37.76	29.46	55.81
1875.	29.49	32.26	43.51	61.55	68.93	72.28	65.81	60.71	51.05	40.38	27.70	22.80	48.04
1876.	27.88	27.82	39.36	55.59	61.26	70.34	67.40	63.53	47.65	35.42	27.03	24.87	45.68
1877.	27.70	28.66	43.02	51.22	56.49	67.16	66.42	57.58	43.73	30.94	22.47	18.97	42.86
1878.	19.42	27.23	37.58	51.04	54.92	57.92	61.05	55.07	45.15	29.12	20.54	21.94	40.08
1879.	20.07	23.67	39.64	46.91	59.28	64.63	60.89	58.17	46.51	33.90	22.52	20.38	41.38
1880.	20.26	26.26	41.09	54.66	60.85	71.47	67.44	64.08	56.06	48.09	29.10	32.05	47.62
1881.	29.28	35.76	49.73	65.04	68.18	86.24	79.30	70.93	62.50	52.99	40.94	42.93	56.99
1882.	36.32	38.46	60.01	73.74	83.18	76.39	70.84	69.01	58.54	54.03	42.10	35.14	58.15
1883.	33.79	39.90	52.01	64.46	69.70	77.37	77.92	67.76	62.08	49.05	34.19	29.28	54.79
1884.	27.78	43.87	61.09	73.53	76.99	84.59	74.83	70.82	62.26	45.95	36.62	25.37	56.98
1885.	38.92	42.08	51.93	65.64	79.17	84.62	80.77	69.57	63.08	52.47	34.83	27.10	57.52
1886.	37.03	43.30	56.03	67.39	76.79	74.08	73.99	66.14	56.11	48.83	45.57	50.03	57.94
1887.	43.17	51.99	45.04	57.73	63.81	63.91	69.65	65.58	61.40	38.35	33.60	38.97	52.77
1888.	32.79	43.58	47.65	52.48	63.34	67.84	67.70	59.98	54.01	39.48	30.92	30.39	49.18
Means.	31.84	38.07	49.92	62.07	68.64	73.22	71.60	64.76	56.82	43.88	32.90	30.05	51.98

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